

## Search Summary

**Query :** (((((International Conference on Electronic Business 2018) WN ALL)) AND  
({international consortium for electronic business} WN PN))

**Type :** Expert

**Results :** 92

**Database(s) :** Compendex & Inspec

**Downloaded :** 7/4/2021

## 1. Proceedings of the International Conference on Electronic Business (ICEB)

**Accession number:** 20190906545312

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2018-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 18th International Conference on Electronic Business: AI and Smart Tourism, ICEB 2018

**Issue date:** 2018

**Publication year:** 2018

**Language:** English

**ISSN:** 16830040

**Document type:** Conference proceeding (CP)

**Conference name:** 18th International Conference on Electronic Business, ICEB 2018

**Conference date:** December 2, 2018 - December 6, 2018

**Conference location:** Guangxi, China

**Conference code:** 145276

**Publisher:** International Consortium for Electronic Business

**Abstract:** The proceedings contain 90 papers. The topics discussed include: a conceptual framework for smart city international standards; a cryptocurrency based insurance model; a heterogeneous systems public key encryption with equality test in smart city; a modified knn algorithm for activity recognition in smart home; a scientometrics review on research of knowledge sharing in virtual communities; a similar legal case retrieval system by multiple speech question and answer; an artificial intelligence application framework in human resource management practice; and an empirical investigation of culture's influence in online service ratings: from the perspective of uncertainty avoidance.

**Abstract type:** (Edited Abstract)

**Page count:** 837

**Database:** Compendex

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**Data Provider:** Engineering Village

## 2. Peculiarities of IoT-based business model transformations in SMEs

**Accession number:** 20190906545495

**Authors:** Varaniute, Viktorija (1); Vitkauskaitė, Elena (1); Tarute, Asta (1)

**Author affiliation:** (1) Kaunas University of Technology, Lithuania

**Corresponding author:** Vitkauskaitė, Elena(elena.vitkauskaitė@ktu.lt)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2018-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 18th International Conference on Electronic Business: AI and Smart Tourism, ICEB 2018

**Issue date:** 2018

**Publication year:** 2018

**Pages:** 439-446

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 18th International Conference on Electronic Business, ICEB 2018

**Conference date:** December 2, 2018 - December 6, 2018

**Conference location:** Guangxi, China

**Conference code:** 145276

**Publisher:** International Consortium for Electronic Business

**Abstract:** Internet of Things (IoT) is gaining much attention from practitioners and academia and serves as a business mean to increase efficiency and improve business processes. Since small and medium-sized enterprises (SMEs) play an important role in the market's value creation, it is particularly important to understand key aspects of IoT-based business model transformations in SMEs. However, the existing literature on IoT-based business models mainly focused on transformations in large companies. Therefore, this paper aims to identify the preconditions of adopting IoT in SMEs and possible resulting business model transformations. A systematic literature review was chosen as the main research method for this paper. Results of the analysis were summarized as the preconditions for IoT-based

business model transformations using Osterwalder & Pigneur's Business Model Canvas concept as a basis. © 2018 International Consortium for Electronic Business. All rights reserved.

**Number of references:** 35

**Main heading:** Internet of things

**Controlled terms:** Electronic commerce - Electronics industry - Leisure industry - Tourism

**Uncontrolled terms:** Business modeling - Business models - Business Process - Internet of Things (IOT) - Large companies - research methods - Small and medium-sized enterprise - Systematic literature review

**Classification code:** 723 Computer Software, Data Handling and Applications

Computer Software, Data Handling and Applications

- 723.5 Computer Applications

Computer Applications

**Funding Details:** Number: -, Acronym: -, Sponsor: Lietuvos Mokslo Taryba;

**Funding text:** This research was funded by a grant (No. S-MIP-17-4) from the Research Council of Lithuania.

**Compendex references:** YES

**Database:** Compendex

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**Data Provider:** Engineering Village

### 3. The use of electronic medical record system on dynamic capabilities and physician productivity

**Accession number:** 20190906545290

**Authors:** Liew, Ewilly J.Y. (1); Poh, Yeh-Han (2); Koh, Sharon G.M. (1); French, Juliana A. (1); Teh, Pei-Lee (1)

**Author affiliation:** (1) Monash University, Malaysia; (2) University Malaya Medical Centre, Malaysia

**Corresponding author:** Liew, Ewilly J.Y.(ewilly.liew@monash.edu)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2018-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 18th International Conference on Electronic Business: AI and Smart Tourism, ICEB 2018

**Issue date:** 2018

**Publication year:** 2018

**Pages:** 673-681

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 18th International Conference on Electronic Business, ICEB 2018

**Conference date:** December 2, 2018 - December 6, 2018

**Conference location:** Guangxi, China

**Conference code:** 145276

**Publisher:** International Consortium for Electronic Business

**Abstract:** Transiting from manual to electronic medical record (EMR) system is a managerial concern due to human resistance to change and potential interruption to the existing workflow operation. Using PLS-SEM, findings show that doctors' perceived usefulness and ease of using the EMR system can be leveraged to enhance their dynamic capabilities for knowledge acquisition and deployment, thus having a positive impact on physician productivity. The study contributes towards policies and strategies that can enhance doctors' dynamic capabilities to leverage the implementation of the EMR system towards improving physician productivity from a developing country perspective. © 2018 International Consortium for Electronic Business. All rights reserved.

**Number of references:** 28

**Main heading:** Medical information systems

**Controlled terms:** Developing countries - Electronic commerce - Electronics industry - Enterprise resource management - Information systems - Intensive care units - Knowledge acquisition - Knowledge management - Leisure industry - Medical computing - Productivity - Tourism

**Uncontrolled terms:** Dynamic capabilities - Electronic medical record - Electronic medical record system - EMR systems - ON dynamics - Perceived usefulness - Resistance to change

**Classification code:** 462.2 Hospitals, Equipment and Supplies

Hospitals, Equipment and Supplies

- 723.4 Artificial Intelligence

Artificial Intelligence

- 723.5 Computer Applications  
 Computer Applications  
 - 903 Information Science  
 Information Science  
 - 912.2 Management  
 Management

**Funding Details:** Number: -, Acronym: -, Sponsor: Monash University Malaysia;

**Funding text:** This work is supported by grant GA-MA-16-L01 of Global Asia in the 21st Century (GA21) Multidisciplinary Funding Platform from Monash University Malaysia.

**Compendex references:** YES

**Database:** Compendex

Compilation and indexing terms, Copyright 2021 Elsevier Inc.

**Data Provider:** Engineering Village

#### 4. Retrieval method of electronic medical records based on rules and knowledge graph

**Accession number:** 20190906545279

**Authors:** Chen, Qiangui (1); Li, Bing (1)

**Author affiliation:** (1) University of International Business and Economics, China

**Corresponding author:** Li, Bing(lb0501@126.com)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2018-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 18th International Conference on Electronic Business: AI and Smart Tourism, ICEB 2018

**Issue date:** 2018

**Publication year:** 2018

**Pages:** 570-577

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 18th International Conference on Electronic Business, ICEB 2018

**Conference date:** December 2, 2018 - December 6, 2018

**Conference location:** Guangxi, China

**Conference code:** 145276

**Publisher:** International Consortium for Electronic Business

**Abstract:** Every day, the hospital has accumulated a large number of electronic medical records, which record the doctor's description of various patients' conditions, including a large number of medical knowledge related to the patient's health status. So intelligent retrieval research of EMR is an important extension of the medical field. Its accurate retrieval plays an important guiding role in research in the medical field. In this paper, we come up with the combination of rules and knowledge graph, and experimental results demonstrate that the electronic medical record retrieval method based on rules and knowledge map technology can significantly improve the retrieval effect. © 2018 International Consortium for Electronic Business. All rights reserved.

**Number of references:** 35

**Main heading:** Tourism

**Controlled terms:** Electronic commerce - Electronics industry - Information retrieval - Knowledge representation - Leisure industry - Medical computing

**Uncontrolled terms:** Electronic medical record - Health status - Intelligent retrieval - Knowledge graphs - Medical fields - Medical knowledge - Patients' conditions - Retrieval methods

**Classification code:** 723.4 Artificial Intelligence

Artificial Intelligence

- 723.5 Computer Applications

Computer Applications

- 903.3 Information Retrieval and Use

Information Retrieval and Use

**Funding Details:** Number: 16BTQ065, Acronym: -, Sponsor: National Social Science Fund Youth Project;

**Funding text:** This work is supported by National Social Science Fund Project, China (No. 16BTQ065).

**Compendex references:** YES

**Database:** Compendex

Compilation and indexing terms, Copyright 2021 Elsevier Inc.

Data Provider: Engineering Village

## 5. How online customer reviews influence creditability and business performance of tourism websites?

**Accession number:** 20190906545486

**Authors:** Li, Chao (1); Feng, Weixi (2)

**Author affiliation:** (1) Xiamen University, China; (2) Zhongyuan University of Technology, China

**Corresponding author:** Feng, Weixi(wxfeng@zut.edu.cn)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2018-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 18th International Conference on Electronic Business: AI and Smart Tourism, ICEB 2018

**Issue date:** 2018

**Publication year:** 2018

**Pages:** 353-363

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 18th International Conference on Electronic Business, ICEB 2018

**Conference date:** December 2, 2018 - December 6, 2018

**Conference location:** Guangxi, China

**Conference code:** 145276

**Publisher:** International Consortium for Electronic Business

**Abstract:** Online customer reviews provide a rich shopping experience for potential customers and share information of products and services of tourism websites. Potential customers who have purchase intention can achieve useful information to decrease perceived risk with purchase uncertainty and help to make rational decisions. Prior research concentrates on how online customer reviews affect customer purchase intention, customer purchase behavior and website business performance, while all of the studies ignore the research perspective of website creditability. As credit is becoming a key factor to judge the operation quality of tourism websites, for filling the research gap, we firstly provide empirical evidence to explore how online customer reviews influence business performance with website creditability as an intermediary variable and additionally verify the significance of information quality as a moderator. The research findings show that the intermediary effects of creditability on online customer reviews and website business performance are significant, however, the moderate effect is not significant, which is distinguished from a large number of previous studies. © 2018 International Consortium for Electronic Business. All rights reserved.

**Number of references:** 30

**Main heading:** Tourism

**Controlled terms:** Electronic commerce - Electronics industry - Information analysis - Leisure industry - Purchasing - Sales - Websites

**Uncontrolled terms:** Business performance - Information quality - Online customer reviews - Operation quality - Potential customers - Products and services - Purchase intention - Tourism websites

**Classification code:** 723.5 Computer Applications

Computer Applications

- 903.1 Information Sources and Analysis

Information Sources and Analysis

**Funding Details:** Number: -, Acronym: -, Sponsor: Center for Outcomes Research and Evaluation, Yale School of Medicine;

**Funding text:** The work described in this article was supported by Young Core Teachers Training Program and Interdisciplinary Team Program in Zhongyuan University of Technology, China.

**Compendex references:** YES

**Database:** Compendex

Compilation and indexing terms, Copyright 2021 Elsevier Inc.

Data Provider: Engineering Village

## 6. A conceptual framework for smart city international standards

**Accession number:** 20190906545451

**Authors:** Guo, Hong (1); Gao, Shang (2); Li, Jingyue (3); Xue, Haona (1)

**Author affiliation:** (1) Anhui University, China; (2) Örebro University, Sweden; (3) Norwegian University of Science and Technology, Norway

**Corresponding author:** Guo, Hong(homekuo@gmail.com)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2018-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 18th International Conference on Electronic Business: AI and Smart Tourism, ICEB 2018

**Issue date:** 2018

**Publication year:** 2018

**Pages:** 1-8

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 18th International Conference on Electronic Business, ICEB 2018

**Conference date:** December 2, 2018 - December 6, 2018

**Conference location:** Guangxi, China

**Conference code:** 145276

**Publisher:** International Consortium for Electronic Business

**Abstract:** Smart cities construction has been a global focus during the past ten years. It contributes to the achievement of the sustainability development goals (for economy, society, and environment) by leveraging information and communication technologies (ICTs). International organizations (such as ISO, IEC, and ITU-T) have developed standards to encapsulate precise and state-of-the-art knowledge regarding research, practice and policy. However, thousands of such standards have not been fully used due to the lack of generally agreed vocabularies or frameworks. In this article, a conceptual framework named 'ALL' is proposed. Some initial evaluations on the proposed framework have been performed. The result shows that the framework could help people observe, organize and use such standards more efficiently. Some preliminary conversations with governments prove the potential usefulness of the framework in practice. © 2018 International Consortium for Electronic Business. All rights reserved.

**Number of references:** 30

**Main heading:** Tourism

**Controlled terms:** Electronic commerce - Electronics industry - Leisure industry - Smart city - Sustainable development

**Uncontrolled terms:** Conceptual frameworks - Information and Communication Technologies - International organizations - International standards - State of the art

**Classification code:** 723.5 Computer Applications

Computer Applications

**Compendex references:** YES

**Database:** Compendex

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**Data Provider:** Engineering Village

## 7. Experiential learning through role-playing in the digital technology for business course

**Accession number:** 20212010349364

**Authors:** Thongmak, Mathupayas (1)

**Author affiliation:** (1) Thammasat Business School, Thammasat University, Thailand

**Corresponding author:** Thongmak, Mathupayas(mathupayas@tbs.tu.ac.th)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2020-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 20th International Conference on Electronic Business: Electronic Business under COVID-19 Pandemic, ICEB 2020

**Issue date:** 2020

**Publication year:** 2020

**Pages:** 119-127

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 20th International Conference on Electronic Business, ICEB 2020

**Conference date:** December 5, 2020 - December 8, 2020

**Conference location:** Virtual, Hong Kong, China

**Conference code:** 168684

**Publisher:** International Consortium for Electronic Business

**Abstract:** The purpose of this paper is to investigate the use of role-playing in an introductory course. A study of how new pedagogical approaches affect students' learning is crucial due to the change of learning environments, the more disengaged students, and enrollment declines. A survey of 103 undergraduate students from two classes of the Digital Technology for Business course, who joined the role-playing activities in 2018 and 2019, were collected. The role-playing activities were conducted six rounds for each class, yielding 458 records for data analysis. Results from the nonparametric test equivalent to the dependent t-test indicate that experiential learning through role-playing activities improves students' perceived usefulness (understanding, problem-solving skills, creativity, and topic interests) and their engagement intention (role-playing engagement intention, class attendance intention, and class participation intention) in all aspects. The content analysis of the open-ended question also reveals key comments from students in terms of the received emotions/ feelings, benefits for audiences, general expectations, and expectations about role-playing. Lecturers could apply role-playing to enhance their classrooms and engage more students. The role-playing activities are fewer applied to technology-related courses. This work shows the effectiveness of role-playing and offers the guideline to implement role-playing in courses. © 2020 International Consortium for Electronic Business. All rights reserved.

**Number of references:** 27

**Main heading:** Students

**Controlled terms:** Computer aided instruction - E-learning - Electronic commerce - Electronics industry - Equivalence classes

**Uncontrolled terms:** Class participations - Digital technologies - Experiential learning - Learning environments - Open-ended questions - Pedagogical approach - Problem solving skills - Undergraduate students

**Classification code:** 723.5 Computer Applications

Computer Applications

**Compendex references:** YES

**Database:** Compendex

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**Data Provider:** Engineering Village

## 8. Research on the improvement of ERP implementation in purchasing departments from the perspective of internal control

**Accession number:** 20190906545271

**Authors:** Zhao, Ying (1); Li, Wei (1)

**Author affiliation:** (1) School of Business, Guilin University of Electronic Technology, Guilin, China

**Corresponding author:** Zhao, Ying(zhaoying@guet.edu.cn)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2018-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 18th International Conference on Electronic Business: AI and Smart Tourism, ICEB 2018

**Issue date:** 2018

**Publication year:** 2018

**Pages:** 488-496

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 18th International Conference on Electronic Business, ICEB 2018

**Conference date:** December 2, 2018 - December 6, 2018

**Conference location:** Guangxi, China

**Conference code:** 145276

**Publisher:** International Consortium for Electronic Business

**Abstract:** With the wide applications and development of information technology and network technology, focusing on the background of ERP (enterprise resource planning) systems and people's reliance on both information system and accounting information systems, as important parts of ERP, plays a vital role in the management of enterprises. However, due to the continuous introduction of new innovations in the ERP system, enterprises continue to improve their competitiveness and management levels. When advanced ERP management can be practically implemented in

the system, it will inevitably present difficult internal control measures, network environmental risks and many other problems. Then how to build the internal control system to ensure that enterprises in the pursuit of ERP information systems, simultaneously better serve the enterprise's own internal controls and management, and minimize the internal control and design defects. In addition to the system controls, in order to better conduct internal controls, one must deeply investigate the business processes, using necessary informational means, and constantly change their own architecture and business process reengineering (BPR), in order to technically improve the internal governance structure. Thus, the corresponding internal controls will include the system-oriented controls and the various business, personnel, and departments' overall grasp of the change. This encourages enterprises to seek reasonable ways, methods and ideas for continuous innovation. We should actively address and adjust the challenges brought by the internal control system of the accounting information system under the ERP environment, and make full use of ERP technology and BPR to realize the internal control norms of enterprises. © 2018 International Consortium for Electronic Business. All rights reserved.

**Number of references:** 20

**Main heading:** Enterprise resource planning

**Controlled terms:** Competition - Control systems - Electronic commerce - Electronics industry - Enterprise resource management - Finance - Information management - Information systems - Information use - Leisure industry - Purchasing - Reengineering - Risk assessment - Tourism

**Uncontrolled terms:** Accounting Information Systems - Business process re-engineering - Continuous innovation - ERP implementation - Governance structures - Improvement - Internal controls - Purchasing department

**Classification code:** 723.2 Data Processing and Image Processing

Data Processing and Image Processing

- 723.5 Computer Applications

Computer Applications

- 731.1 Control Systems

Control Systems

- 903.3 Information Retrieval and Use

Information Retrieval and Use

- 911.2 Industrial Economics

Industrial Economics

- 912.2 Management

Management

- 913.3 Quality Assurance and Control

Quality Assurance and Control

- 914.1 Accidents and Accident Prevention

Accidents and Accident Prevention

**Compendex references:** YES

**Database:** Compendex

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**Data Provider:** Engineering Village

## 9. Research on construction company's strategy transformation based on BIM

**Accession number:** 20190906545498

**Authors:** Tsaih, Rua-Huan (1); Hsu, Yao-Tang (1)

**Author affiliation:** (1) Department of Management Information Systems, Taiwan Chengchi University, Taiwan

**Corresponding author:** Hsu, Yao-Tang(yc.yc0088@hibox.hinet.net)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2018-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 18th International Conference on Electronic Business: AI and Smart Tourism, ICEB 2018

**Issue date:** 2018

**Publication year:** 2018

**Pages:** 470-478

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 18th International Conference on Electronic Business, ICEB 2018

**Conference date:** December 2, 2018 - December 6, 2018

**Conference location:** Guangxi, China



**Conference code:** 145276

**Publisher:** International Consortium for Electronic Business

**Abstract:** This paper explores the strategic planning for a case company based on BIM transformation. This paper first analyzes the organizational structure and BIM strategy of the current case company, uses IDEF0 to build an existing business process model, and uses Time-Driven Activity-Based Costing (TDABC) to analyze the working time and manpower required under the existing business process; Using the Theory of Constraints (TOC) thinking process model to identify the fundamental factors of problems and bottlenecks in existing business processes, explore how to remove bottlenecks and re-engineer business processes through importing BIM; then propose future IDEF0 business process models; then use TDABC to analyze the working time and manpower required to import BIM business in the future. Through the future mode of operation and the time and manpower that can be streamlined, from the perspective of BIM's impact on the business activities of the case company, and refer to the BIM platform deployment, operation type and how to use BIM to provide services for BIM successful companies to propose a case company BIM platform setting strategy, optimal BIM platform structure, operation type and function items and operation function adjustment suggestions of the case company. © 2018 International Consortium for Electronic Business. All rights reserved.

**Number of references:** 12

**Main heading:** Architectural design

**Controlled terms:** Constraint theory - Construction industry - Cost accounting - Electronic commerce - Electronics industry - Leisure industry - Strategic planning - Structural optimization - Tourism

**Uncontrolled terms:** Activity based costing - Business Process - Business process model - Construction companies - Enterprise transformation - Organizational change - Organizational structures - TDABC

**Classification code:** 402 Buildings and Towers

Buildings and Towers

- 405 Construction Equipment and Methods; Surveying

Construction Equipment and Methods; Surveying

- 723.5 Computer Applications

Computer Applications

- 911.1 Cost Accounting

Cost Accounting

- 912.2 Management

Management

- 921.5 Optimization Techniques

Optimization Techniques

- 961 Systems Science

Systems Science

**Compendex references:** YES

**Database:** Compendex

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**Data Provider:** Engineering Village

## 10. Research on dynamic distribution and prediction of inbound tourists in China

**Accession number:** 20190906545307

**Authors:** Chen, Chen (1); Dai, Jili (1); Li, Shenglin (1)

**Author affiliation:** (1) Army Logistics University of PLA, China

**Corresponding author:** Chen, Chen(433432@qq.com)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2018-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 18th International Conference on Electronic Business: AI and Smart Tourism, ICEB 2018

**Issue date:** 2018

**Publication year:** 2018

**Pages:** 795-799

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 18th International Conference on Electronic Business, ICEB 2018

**Conference date:** December 2, 2018 - December 6, 2018

**Conference location:** Guangxi, China

**Conference code:** 145276

**Publisher:** International Consortium for Electronic Business

**Abstract:** Based on the 1997-2016 inbound tourism data, this paper establishes a second exponential smoothing prediction model, predicts the number of inbound tourists in the next five years, and explores the dynamic changes and trends of inbound tourists in China, and analyzes this trend. The study found that the distribution of inbound tourists in the six regions of China has shown a relatively stable trend. © 2018 International Consortium for Electronic Business. All rights reserved.

**Number of references:** 13

**Main heading:** Tourism

**Controlled terms:** Electronic commerce - Electronics industry - Forecasting - Leisure industry - Predictive analytics

**Uncontrolled terms:** Dynamic changes - Exponential smoothing predictions - Inbound tourists - Inbound tourists - ON dynamics

**Classification code:** 723.5 Computer Applications

Computer Applications

**Compendex references:** YES

**Database:** Compendex

Compilation and indexing terms, Copyright 2021 Elsevier Inc.

**Data Provider:** Engineering Village

## 11. Supplier concentration, ownership type and trade credit financing: Based on the empirical evidence of manufacturing industry listed companies in China

**Accession number:** 20201408377857

**Authors:** Dou, Yaqin (1); Zheng, Qiming (2); Dou, Xinfeng (1); Chen, Sijia (1)

**Author affiliation:** (1) Nanjing Institute of Technology, Nanjing, China; (2) Nanjing Polytechnic Institute, Nanjing, China

**Corresponding author:** Dou, Yaqin(douyq@njit.edu.cn)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2019-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 19th International Conference on Electronic Business: Artificial Intelligence Empowered Business Processes, ICEB 2019

**Issue date:** 2019

**Publication year:** 2019

**Pages:** 419-427

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 19th International Conference on Electronic Business, ICEB 2019

**Conference date:** December 8, 2019 - December 12, 2019

**Conference location:** Newcastle upon Tyne, United kingdom

**Conference code:** 158514

**Sponsor:** Newcastle Business School; SME

**Publisher:** International Consortium for Electronic Business

**Abstract:** Trade credit belongs to the scope of supply chain internal financing, which reflects the principal relationship between enterprises and suppliers. Based on the empirical data from a main board manufacturing industry companies of 2008-2018, we examine the influence of supplier concentration on trade credit financing in enterprises with different property rights in this paper. We find that the higher the concentration of suppliers, the less trade credit financing enterprises get from suppliers, indicating that the worry about "fleecing" and similar opportunistic behaviors reducing suppliers' willingness to provide trade credit. We also find that the negative impact of supplier concentration on trade credit financing of non-state-owned enterprises is stronger than that of state-owned enterprises. © 2019 International Consortium for Electronic Business. All rights reserved.

**Number of references:** 27

**Main heading:** Electronics industry

**Controlled terms:** Artificial intelligence - Electronic commerce - Finance - Manufacture - Supply chains

**Uncontrolled terms:** Empirical data - Manufacturing industries - Ownership type - Property right - State owned enterprise - Trade credit - Trade credit financings

**Classification code:** 723.4 Artificial Intelligence

Artificial Intelligence

- 723.5 Computer Applications

Computer Applications

- 912 Industrial Engineering and Management

Industrial Engineering and Management

- 913 Production Planning and Control; Manufacturing

Production Planning and Control; Manufacturing

- 913.4 Manufacturing

Manufacturing

**Funding Details:** Number: 19SCB-015, Acronym: NJIT, Sponsor: Nanjing Institute of Technology;

**Funding text:** This work was financially supported by grant JCYJ201622 of basic research project of Nanjing Institute of Technology: Research on optimization and decision making of online supply chain financing research in the "Internet +" era, China; CKJB201805 of general program I of innovation fund of Nanjing Institute of Technology: Research on the function dissimilation and governance mechanism of capital market in Enterprise Group, China; 19SCB-015 of finance development special fund project of applied research fine engineering of social sciences of Jiangsu province: Research on the realization path of "going out" of private enterprises in Jiangsu province with digital supply chain finance precision service under the strategy of "one belt and one way".

**Compendex references:** YES

**Database:** Compendex

Compilation and indexing terms, Copyright 2021 Elsevier Inc.

**Data Provider:** Engineering Village

## 12. Action research on development and application of AIoT traffic solution

**Accession number:** 20190906545460

**Authors:** Wang, Wen-Hsin (1); Hsu, Yao-Tang (1)

**Author affiliation:** (1) National Chengchi University, Taiwan

**Corresponding author:** Wang, Wen-Hsin(alice.ntu@gmail.com)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2018-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 18th International Conference on Electronic Business: AI and Smart Tourism, ICEB 2018

**Issue date:** 2018

**Publication year:** 2018

**Pages:** 90-97

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 18th International Conference on Electronic Business, ICEB 2018

**Conference date:** December 2, 2018 - December 6, 2018

**Conference location:** Guangxi, China

**Conference code:** 145276

**Publisher:** International Consortium for Electronic Business

**Abstract:** AIoT solution based on the AI (Artificial Intelligent) and IoT (Internet of Things) is considered state-of-the-art technology and has emerged in various business environments. To enhance intelligent traffic quality, maximize energy saving and reduce carbon emission, this study applied an AIoT technology based on traffic counting modules and people behavior modules as traffic inference systems. Applications of the IoT technology based on WiFi, 3G/4G and NB-IoT (Narrowband IoT) was conducted gradually in key demonstration roads and cities worldwide, and the development and evaluation results were aligned to an action research framework. The five phases in the action research included designing, collecting data, analyzing data, communicating outcome, and acting phases. During the first two phases, problems of functional operations in traffic were verified and designed for network services by ICT (Information and Communication Technology) and IoT technologies to collection traffic big data. In the third phase, stakeholders may use basic statistic or further deep learning methods to solve traffic scheduling, order and road safety issues. During the fourth and fifth phases, the roles and benefits of stakeholders participating in the service models were evaluated, and issues and knowledge of the whole application process were respectively derived and summarized from technological, economic, social and legal perspectives. From an action research approach, AIoT-based intelligent traffic solutions were developed and verified and it enables MOTC (Ministry of Transportation and Communications) and stakeholders to acquire traffic big data for optimizing traffic condition in technology enforcement. With its implementation, it will ultimately be able to go one step closer to smart city vision. The derived service models could provide stakeholders, drivers and citizens more enhanced traffic services and improve policies' work more efficiency and effectiveness. © 2018 International Consortium for Electronic Business. All rights reserved.

**Number of references:** 15

**Main heading:** Internet of things

**Controlled terms:** Artificial intelligence - Behavioral research - Big data - Data acquisition - Deep learning - Electronic commerce - Electronics industry - Energy conservation - Learning systems - Leisure industry - Motor transportation - Smart city - Tourism

**Uncontrolled terms:** AIoT - Artificial intelligent - Business environments - Development and applications - Functional operation - Information and Communication Technologies - Intelligent traffics - State-of-the-art technology

**Classification code:** 525.2 Energy Conservation

Energy Conservation

- 723 Computer Software, Data Handling and Applications

Computer Software, Data Handling and Applications

- 971 Social Sciences

Social Sciences

**Compendex references:** YES

**Database:** Compendex

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**Data Provider:** Engineering Village

### 13. Research on overseas development status of digital product enterprises

**Accession number:** 20190906545274

**Authors:** Xu, Linling (1); Chen, Jin (1)

**Author affiliation:** (1) University of International Business and Economics, Beijing, China

**Corresponding author:** Xu, Linling(xlinling12@163.com)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2018-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 18th International Conference on Electronic Business: AI and Smart Tourism, ICEB 2018

**Issue date:** 2018

**Publication year:** 2018

**Pages:** 522-529

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 18th International Conference on Electronic Business, ICEB 2018

**Conference date:** December 2, 2018 - December 6, 2018

**Conference location:** Guangxi, China

**Conference code:** 145276

**Publisher:** International Consortium for Electronic Business

**Abstract:** With the rapid development of the Internet and the policy support of "Belt and Road", cross-border e-commerce has become an important driving force for the growth of China's foreign trade. In the digital economy, the trading of digital products has expanded to include international trade. Different from the traditional goods and service products, the convenience of the transaction of digital products and globalization lead to different trade development strategies. Based on the mobile Internet, this paper analyzes the sea-going history of content-based digital products companies and summarizes the laws of the sea to help companies in western China understand the status quo of digital products trade and better determine the development strategy of digital products trade. © 2018 International Consortium for Electronic Business. All rights reserved.

**Number of references:** 15

**Main heading:** Electronic commerce

**Controlled terms:** Electronics industry - International trade - Leisure industry - Strategic planning - Tourism

**Uncontrolled terms:** Development status - Development strategies - Digital economy - Digital products - Driving forces - Mobile Internet - Policy support - Service products

**Classification code:** 723.5 Computer Applications

Computer Applications

- 912.2 Management

Management

**Funding Details:**

**Funding text:** This work is supported by grant 16ZDA036 of the National major social science fund, China.

**Compendex references:** YES

**Database:** Compendex

Compilation and indexing terms, Copyright 2021 Elsevier Inc.

**Data Provider:** Engineering Village

#### **14. Understanding usage intention of social media's innovative functions: Based on expanded innovation diffusion theory**

**Accession number:** 20190906545293

**Authors:** Chen, Guijun (1); Luo, Chuan (1); Xu, Hanyu (1)

**Author affiliation:** (1) Southwestern University of Finance and Economics, Chengdu, China

**Corresponding author:** Chen, Guijun(chenguijun@2016.swufe.edu.cn)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2018-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 18th International Conference on Electronic Business: AI and Smart Tourism, ICEB 2018

**Issue date:** 2018

**Publication year:** 2018

**Pages:** 700-709

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 18th International Conference on Electronic Business, ICEB 2018

**Conference date:** December 2, 2018 - December 6, 2018

**Conference location:** Guangxi, China

**Conference code:** 145276

**Publisher:** International Consortium for Electronic Business

**Abstract:** Drawing upon expanded innovation diffusion theory (IDT), this study investigates the social media users' usage intention toward its innovative functions. 532 data were collected from the Chinese leading social media-WeChat. The results show that the relative advantage, ease of use, trialability, observability, subjective norm and image have positive effect on users' usage intention. Whereas compatibility has no significant impact. Based upon these findings, we discussed the theoretical contributions and practical implication of this study. © 2018 International Consortium for Electronic Business. All rights reserved.

**Number of references:** 30

**Main heading:** Social networking (online)

**Controlled terms:** Diffusion - Electronic commerce - Electronics industry - Leisure industry - Tourism

**Uncontrolled terms:** Ease-of-use - Innovation diffusion theory - Innovative functions - Social media - Subjective norm - Usage intention

**Classification code:** 723 Computer Software, Data Handling and Applications

Computer Software, Data Handling and Applications

- 723.5 Computer Applications

Computer Applications

**Funding Details:** Number: JBK120505,JBK1802012, Acronym: -, Sponsor: Fundamental Research Funds for the Central Universities;

**Funding text:** This work is supported by the Fundamental Research Funds for the Central Universities (Grant No. JBK1802012, JBK120505), the Fund from Collaborative Innovation Center for the Innovation and Regulation of Internet-based-Finance (Grant No. JBK150407), and Fund from Laboratory for Financial Intelligence and Financial Engineering, Southwestern University of Finance and Economics

**Compendex references:** YES

**Database:** Compendex

Compilation and indexing terms, Copyright 2021 Elsevier Inc.

**Data Provider:** Engineering Village

#### **15. On the potential of socioeconomic characteristics to understand the adoption of information technology**

**Accession number:** 20190906545305

**Authors:** Fehrenbacher, Dennis D. (1); Choo, Kim-Kwang Raymond (2)

**Author affiliation:** (1) Monash Business School, Monash University, Australia; (2) Department of Information Systems and Cyber Security, University of Texas, San Antonio, United States

**Corresponding author:** Fehrenbacher, Dennis D.(Dennis.Fehrenbacher@monash.edu)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2018-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 18th International Conference on Electronic Business: AI and Smart Tourism, ICEB 2018

**Issue date:** 2018

**Publication year:** 2018

**Pages:** 785-790

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 18th International Conference on Electronic Business, ICEB 2018

**Conference date:** December 2, 2018 - December 6, 2018

**Conference location:** Guangxi, China

**Conference code:** 145276

**Publisher:** International Consortium for Electronic Business

**Abstract:** We suggest to use publicly available large-scale socioeconomic data to examine the utility of demographic and social characteristics as proxies for constructs of technology adoption models. Such characteristics can be sourced from socioeconomic surveys in several countries. We suggest a model associating constructs of a technology adoption model with proxies available in socioeconomic surveys. It is discussed that managers and policymakers assessing scenarios for new technology introductions may be given easier to handle indicators in form of demographic and social characteristics to understand important drivers of technology acceptance. © 2018 International Consortium for Electronic Business. All rights reserved.

**Number of references:** 23

**Main heading:** Tourism

**Controlled terms:** Electronic commerce - Electronics industry - Leisure industry - Population statistics - Surveys

**Uncontrolled terms:** Publicly available data - Socio-economic data - Socioeconomic characteristics - Socioeconomic surveys - Technology acceptance - Technology adoption - Technology adoption models - Technology introductions

**Classification code:** 723.5 Computer Applications

Computer Applications

**Compendex references:** YES

**Database:** Compendex

Compilation and indexing terms, Copyright 2021 Elsevier Inc.

**Data Provider:** Engineering Village

## 16. Influence of media richness of E-WOM on consumers' mental imagery and attitudes

**Accession number:** 20190906545490

**Authors:** Zhao, Nian (1); Li, Xiaolin (1); Ma, Yuanhong (1); Zhang, Linbin (1); Li, Liangqiang (1); Cao, Yunzhong (1)

**Author affiliation:** (1) Sichuan Agricultural University, China

**Corresponding author:** Li, Xiaolin(57929606@qq.com)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2018-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 18th International Conference on Electronic Business: AI and Smart Tourism, ICEB 2018

**Issue date:** 2018

**Publication year:** 2018

**Pages:** 391-399

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 18th International Conference on Electronic Business, ICEB 2018

**Conference date:** December 2, 2018 - December 6, 2018

**Conference location:** Guangxi, China

**Conference code:** 145276

**Publisher:** International Consortium for Electronic Business

**Abstract:** E-WOM has become a hot research topic. Based on the theory of media richness, this paper divides online reviews into three types according to the degree of e-WOM richness from low to high - "text", "text + image" and "text + image + video". From the perspective of mental imagery, this paper explores the consumer attitudes of these three kinds of reviews with different richness. The Experimental data analysis shows that compared with "text" reviews, "text + image" reviews have more significant impact on consumers' mental imagery and attitudes; as a form of high richness e-WOM, "text + image + video" has the most significant impact on consumers' mental imagery and attitudes. This discovery points out several meaningful directions for the further study from the perspective of media richness. © 2018 International Consortium for Electronic Business. All rights reserved.

**Number of references:** 27

**Main heading:** Tourism

**Controlled terms:** Electronic commerce - Electronics industry - Leisure industry

**Uncontrolled terms:** Attitudes - Consumer attitudes - Experimental data analysis - Hot research topics - Low-to-high - Media richness - Mental imagery - Online reviews

**Classification code:** 723.5 Computer Applications

Computer Applications

**Compendex references:** YES

**Database:** Compendex

Compilation and indexing terms, Copyright 2021 Elsevier Inc.

**Data Provider:** Engineering Village

## 17. Influence of online consumer reviews on brand choice

**Accession number:** 20190906545303

**Authors:** Lui, Patricia (1)

**Author affiliation:** (1) Singapore Management University, Singapore, Singapore

**Corresponding author:** Lui, Patricia(patricialui@smu.edu.sg)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2018-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 18th International Conference on Electronic Business: AI and Smart Tourism, ICEB 2018

**Issue date:** 2018

**Publication year:** 2018

**Pages:** 773-777

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 18th International Conference on Electronic Business, ICEB 2018

**Conference date:** December 2, 2018 - December 6, 2018

**Conference location:** Guangxi, China

**Conference code:** 145276

**Publisher:** International Consortium for Electronic Business

**Abstract:** Social interaction encourages consumers to share information in the digital age. Many consumers use online reviews of products and services to support their brand choice. The concept of reference group explains how peers can influence consumer purchase decisions. Peers can exert influence on consumers in the forms of informational, utilitarian and value-expressive influences. This proposed study aims at examining how these three forms of reference group influence would affect consumers in using online consumer reviews when making a brand choice decision. It also explores the role of brand trust on the brand choice. This paper serves the purpose of providing a conceptual framework for developing further research. © 2018 International Consortium for Electronic Business. All rights reserved.

**Number of references:** 45

**Main heading:** Consumer behavior

**Controlled terms:** Electronic commerce - Electronics industry - Leisure industry - Purchasing - Tourism

**Uncontrolled terms:** Brand choices - Brand trust - Informational influence - Online consumer reviews - Reference group - Utilitarian influence - Value-expressive influence

**Classification code:** 723.5 Computer Applications

Computer Applications

- 931.3 Atomic and Molecular Physics

Atomic and Molecular Physics

**Compendex references:** YES

**Database:** Compendex

Compilation and indexing terms, Copyright 2021 Elsevier Inc.

**Data Provider:** Engineering Village

## 18. Empirical study of the effects of information description on crowdfunding success - The perspective of information communication

**Accession number:** 20190906545478

**Authors:** Liang, Xiaobei (1); Hu, Xiaojuan (1)

**Author affiliation:** (1) Tongji University, China

**Corresponding author:** Hu, Xiaojuan(huxiaojuan@tongji.edu.cn)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2018-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 18th International Conference on Electronic Business: AI and Smart Tourism, ICEB 2018

**Issue date:** 2018

**Publication year:** 2018

**Pages:** 275-283

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 18th International Conference on Electronic Business, ICEB 2018

**Conference date:** December 2, 2018 - December 6, 2018

**Conference location:** Guangxi, China

**Conference code:** 145276

**Publisher:** International Consortium for Electronic Business

**Abstract:** From the perspective of information communication, we identify four dimensions of information description, including information quantity (word number, picture number and video number), information attitude, information quality (as measured by readability) and information update. We then empirically examine their effects on crowdfunding success using binary logistic regression. And data is collected from Kickstarter, a popular crowdfunding platform. The results reveal that word number, picture number, video number and update are positively associated with crowdfunding success. And readability is negatively associated with crowdfunding success. In addition, attitude positively moderates the relationship between picture number and crowdfunding success. These findings show the significance of information description on crowdfunding, providing theoretical and practical guidance for project creators. © 2018 International Consortium for Electronic Business. All rights reserved.

**Number of references:** 19

**Main heading:** Crowdsourcing

**Controlled terms:** Electronic commerce - Electronics industry - Leisure industry - Logistic regression - Tourism

**Uncontrolled terms:** Binary logistic regression - Crowdfunding success - Information communication - Information descriptions - Information quality - Information quantity - Information updates - Practical guidance

**Classification code:** 723.5 Computer Applications

Computer Applications

**Funding Details:**

**Funding text:** This work is supported by grant 17YJA630050 of the Humanities and Social Science of Ministry of Education Planning Fund, China.

**Compendex references:** YES

**Database:** Compendex

Compilation and indexing terms, Copyright 2021 Elsevier Inc.

**Data Provider:** Engineering Village

## 19. Why do customers buy products on social commerce platform? A study from affordance theory

**Accession number:** 20190906545296

**Authors:** Sun, Yuan (1); Shao, Xiang (1); Nie, Kun (1); Qi, Yu (1); Guo, Yue (2)

**Author affiliation:** (1) Zhejiang Gongshang University, China; (2) King's College London, Hohai University, China



**Corresponding author:** Sun, Yuan(zorrnsun@163.com)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2018-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 18th International Conference on Electronic Business: AI and Smart Tourism, ICEB 2018

**Issue date:** 2018

**Publication year:** 2018

**Pages:** 731-738

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 18th International Conference on Electronic Business, ICEB 2018

**Conference date:** December 2, 2018 - December 6, 2018

**Conference location:** Guangxi, China

**Conference code:** 145276

**Publisher:** International Consortium for Electronic Business

**Abstract:** This study examines the influence mechanism of the factors of influencing live streaming shopping which is a new social commerce mode for customer purchase based on the affordance theory. Our research examines how visibility affordance, metavoicing affordance and guidance shopping affordance which are three main affordances in live streaming shopping influence the customers' purchase intention. The results show that visibility affordance, metavoicing affordance and guidance shopping affordance will positively impact customer purchase intention. And our research is of great help in live streaming shopping research in social commerce research field. Also, our research provides some advices for social commerce operators. © 2018 International Consortium for Electronic Business. All rights reserved.

**Number of references:** 45

**Main heading:** Sales

**Controlled terms:** Electronic commerce - Electronics industry - Leisure industry - Purchasing - Tourism - Visibility

**Uncontrolled terms:** Affordance theories - Affordances - Influence mechanism - Live streaming - Metavoicing - Purchase intention - Research fields - Social commerces

**Classification code:** 723.5 Computer Applications

Computer Applications

- 741.2 Vision

Vision

**Funding Details:** Number: 71302034,71772162,71772162/71302034, Acronym: NSFC, Sponsor: National Natural Science Foundation of China;

**Funding text:** This research was supported by a grant (Grant ID: 16YXYP01) from the Contemporary Business and Trade Research Center, and the Collaborative Innovation Center of Contemporary Business and Trade Circulation System Construction of Zhejiang Gongshang University, and by the National Natural Science Foundation of China under grant (Grant ID: 71772162/71302034).

**Compendex references:** YES

**Database:** Compendex

Compilation and indexing terms, Copyright 2021 Elsevier Inc.

**Data Provider:** Engineering Village

## 20. The impact of sharing economy on local employment: Evidence from Airbnb

**Accession number:** 20190906545309

**Authors:** Liu, Jianwei (1); Xie, Karen (2); Ye, Qiang (1); Jing, Dong (1)

**Author affiliation:** (1) Harbin Institute of Technology, China; (2) University of Denver, United States

**Corresponding author:** Liu, Jianwei(jianweiliu@hit.edu.cn)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2018-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 18th International Conference on Electronic Business: AI and Smart Tourism, ICEB 2018

**Issue date:** 2018

**Publication year:** 2018

**Pages:** 805-809

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 18th International Conference on Electronic Business, ICEB 2018

**Conference date:** December 2, 2018 - December 6, 2018

**Conference location:** Guangxi, China

**Conference code:** 145276

**Publisher:** International Consortium for Electronic Business

**Abstract:** A growing literature has documented the impact of home sharing. We study a new externality in which local people can enjoy more job opportunities because of the entry of home sharing. Using data from Airbnb and employing a quasi-experimental design, we find the following evidences. We find that home sharing provides more employment options to locals especially for less-education and low-income population. As home sharing becomes an incentive for local employment, our study provides important understanding of home sharing and its implications to local welfare, Airbnb hosts, and policy makers. © 2018 International Consortium for Electronic Business. All rights reserved.

**Number of references:** 6

**Main heading:** Employment

**Controlled terms:** Education - Electronic commerce - Electronics industry - Leisure industry - Tourism

**Uncontrolled terms:** Airbnb - Home-sharing - Income - Job opportunities - Local employment - Local people - Local welfare - Policy makers

**Classification code:** 723.5 Computer Applications

Computer Applications

**Funding Details:** Number: 71490720, Acronym: NSFC, Sponsor: National Natural Science Foundation of China;

Number: 14CXW045, Acronym: -, Sponsor: -;

**Funding text:** This research has been supported by the National Science Foundation of China (71532004, 71490720, 71601038) and the National Social Science Foundation of China (14CXW045).

**Compendex references:** YES

**Database:** Compendex

Compilation and indexing terms, Copyright 2021 Elsevier Inc.

**Data Provider:** Engineering Village

## 21. Research on regional imbalance of cross-border e-commerce - Take Fujian free trade zone as an example

**Accession number:** 20190906545275

**Authors:** Yu, Baoqin (1); Bai, Chenxing (2); Zhou, Yuting (1)

**Author affiliation:** (1) Yango University, Fuzhou, China; (2) Tianjin University of Finance and Economics, Tianjin Vocational Institute, Tianjin, China

**Corresponding author:** Bai, Chenxing(baicx97@163.com)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2018-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 18th International Conference on Electronic Business: AI and Smart Tourism, ICEB 2018

**Issue date:** 2018

**Publication year:** 2018

**Pages:** 530-540

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 18th International Conference on Electronic Business, ICEB 2018

**Conference date:** December 2, 2018 - December 6, 2018

**Conference location:** Guangxi, China

**Conference code:** 145276

**Publisher:** International Consortium for Electronic Business

**Abstract:** This article takes the information data era, world trade, and the deep integration of the "Belt and Road" policy as the background. Using questionnaires and compare to analyze the cross-border e-commerce regional issues in Fujian Free Trade Area, based on the analysis of cross-border e-commerce differences between Fujian, Shanghai and Zhengzhou and the comparative analysis of crossborder e-commerce platforms, it establishes a cross-border e-

commerce service quality gap model to further identify problems. This article points out the current development trend of cross-border e-commerce zone in Fujian Free Trade Area, and the problems and the development shortcomings. Utilizing the advantages of cross-border e-commerce and its platform in Shanghai and Zhengzhou Free Trade Area to improve the imbalance of cross-border e-commerce in the Fujian Free Trade Zone, It has come up with actions and recommendations for building a multi-level network, an open credit platform, and a service quality evaluation system. © 2018 International Consortium for Electronic Business. All rights reserved.

**Number of references:** 11

**Main heading:** Electronic commerce

**Controlled terms:** Electronics industry - International trade - Leisure industry - Quality control - Quality of service - Surveys - Tourism

**Uncontrolled terms:** Cross-border - Free trade - Fujian - Recommendations - Service Quality

**Classification code:** 723.5 Computer Applications

Computer Applications

- 913.3 Quality Assurance and Control

Quality Assurance and Control

**Funding Details:** Number: 17YJC630097, Acronym: -, Sponsor: -;

**Funding text:** This work was supported by the humanities and Social Sciences project of the Ministry of Education [NO. 17YJC630097], China.

**Compendex references:** YES

**Database:** Compendex

Compilation and indexing terms, Copyright 2021 Elsevier Inc.

**Data Provider:** Engineering Village

## 22. The impact of gamification elements on the evaluation of marketing activities

**Accession number:** 20190906545286

**Authors:** Yang, Pianpian (1); Xu, Ting (1); Feng, Yuanyue (1); Zhao, Yating (1); Wang, Xijia (1)

**Author affiliation:** (1) Shenzhen University, China

**Corresponding author:** Xu, Ting(18079153843@163.com)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2018-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 18th International Conference on Electronic Business: AI and Smart Tourism, ICEB 2018

**Issue date:** 2018

**Publication year:** 2018

**Pages:** 634-643

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 18th International Conference on Electronic Business, ICEB 2018

**Conference date:** December 2, 2018 - December 6, 2018

**Conference location:** Guangxi, China

**Conference code:** 145276

**Publisher:** International Consortium for Electronic Business

**Abstract:** Recently, gamification obtains increasingly attention in marketing. Based on the S-O-R model, this research applied gamification to marketing and examined two important gamification elements (external reward and interactive competition) on evaluation of marketing activity. It was found that external reward and interactive competition have positive impacts on evaluation of marketing activity, and perceived enjoyment and immersion mediate the effects of external reward and interactive competition on such evaluation. This research contributes to gamification literature by examining the impact of different gamification elements (external reward vs interactive competition) on the evaluation of marketing activity. Further, this study contributes to marketing literature by exploring the impact of the perceived enjoyment and immersion. This research also provides insights for firms and game administrators on how to encourage customers to generate purchase intention and purchase behavior by designing appropriate gamification elements. © 2018 International Consortium for Electronic Business. All rights reserved.

**Number of references:** 28

**Main heading:** Gamification

**Controlled terms:** Electronic commerce - Electronics industry - Leisure industry - Sales - Tourism

**Uncontrolled terms:** External reward - Marketing activities - Perceived enjoyment - Purchase intention - R models

**Classification code:** 723.5 Computer Applications

Computer Applications

**Funding Details:** Number: 71572116,71602122,71702111, Acronym: NSFC, Sponsor: National Natural Science Foundation of China;

**Funding text:** This work is partially supported by the National Natural Science Foundation of China (Project No.71602122), the National Natural Science Foundation of China (Project No. 71702111), and the National Natural Science Foundation of China (Project No. 71572116).

**Compendex references:** YES

**Database:** Compendex

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**Data Provider:** Engineering Village

### **23. The impact of big data analytics use on supply chain performance - Efficiency and adaptability as mediators**

**Accession number:** 20190906545285

**Authors:** Cheng, Jao-Hong (1); Lu, Kuo-Liang (1)

**Author affiliation:** (1) Department of Information Management, Taiwan Yunlin University of Science and Technology, Douliou, Taiwan

**Corresponding author:** Lu, Kuo-Liang(lkl0606@yahoo.com.tw)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2018-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 18th International Conference on Electronic Business: AI and Smart Tourism, ICEB 2018

**Issue date:** 2018

**Publication year:** 2018

**Pages:** 626-633

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 18th International Conference on Electronic Business, ICEB 2018

**Conference date:** December 2, 2018 - December 6, 2018

**Conference location:** Guangxi, China

**Conference code:** 145276

**Publisher:** International Consortium for Electronic Business

**Abstract:** This paper develops a conceptual model to examine how big data analysis use affect supply chain performance in an omni-channel. A research model is developed which comprises 4 constructs and 4 research hypotheses, the efficiency and adaptability as mediating constructs. The model is tested on data collected from 245 top manufacturing firms in Taiwan, using structural equation modeling. The research findings highlight the importance of efficiency and adaptability as mediators for ensuring supply chain performance by reinforcing big data analytics use. © 2018 International Consortium for Electronic Business. All rights reserved.

**Number of references:** 38

**Main heading:** Advanced Analytics

**Controlled terms:** Big data - Data Analytics - Efficiency - Electronic commerce - Electronics industry - Leisure industry - Supply chains - Tourism

**Uncontrolled terms:** Adaptability - Conceptual model - Manufacturing firms - Research models - Structural equation modeling - Supply chain performance

**Classification code:** 723.2 Data Processing and Image Processing

Data Processing and Image Processing

- 723.5 Computer Applications

Computer Applications

- 912 Industrial Engineering and Management

Industrial Engineering and Management

- 913 Production Planning and Control; Manufacturing

Production Planning and Control; Manufacturing

- 913.1 Production Engineering

Production Engineering

**Compendex references:** YES

**Database:** Compendex  
Compilation and indexing terms, Copyright 2021 Elsevier Inc.  
**Data Provider:** Engineering Village

## 24. Research on foreign exchange exposure of enterprises in China: Taking manufacturing multinational enterprises as an example

**Accession number:** 20190906545499

**Authors:** Shuai, Qinghong (1); Tang, Yu (1); Hu, Hongxin (1); Xiong, Chenchen (1)

**Author affiliation:** (1) Southwestern University of Finance and Economics, China

**Corresponding author:** Tang, Yu(2995438619@qq.com)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2018-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 18th International Conference on Electronic Business: AI and Smart Tourism, ICEB 2018

**Issue date:** 2018

**Publication year:** 2018

**Pages:** 479-487

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 18th International Conference on Electronic Business, ICEB 2018

**Conference date:** December 2, 2018 - December 6, 2018

**Conference location:** Guangxi, China

**Conference code:** 145276

**Publisher:** International Consortium for Electronic Business

**Abstract:** This study measures the exposure of sample corporates to the three types of foreign exchange and then determines factors affecting foreign exchange exposure through the cross-sectional regression model. The study finds: Firstly, the proportion of samples with significant foreign exchange exposure is about 50.79%, while the EUR exposure accounts for the highest proportion at 23.91%, and the USD exposure possess the lowest proportion at 10.08%; Secondly, the average of absolute value of USD exposure is the largest, suggesting that USD exchange rate fluctuations has a greater impact on the corporate values, compared to the EUR and the JPY. Finally, the corporate's scale is significantly positively correlated with the USD exposure, and the corporate's leverage level is significantly positively correlated with the EUR exposure. © 2018 International Consortium for Electronic Business. All rights reserved.

**Number of references:** 18

**Main heading:** Electronics industry

**Controlled terms:** Electronic commerce - Industrial research - Leisure industry - Manufacture - Regression analysis - Tourism

**Uncontrolled terms:** Absolute values - Corporate characteristics - Corporate values - Corporates - Cross-sectional regression - Exchange rates - Foreign exchange - Multinational enterprise

**Classification code:** 537.1 Heat Treatment Processes

Heat Treatment Processes

- 723.5 Computer Applications

Computer Applications

- 901.3 Engineering Research

Engineering Research

- 922.2 Mathematical Statistics

Mathematical Statistics

**Numerical data indexing:** Percentage 2.39e+01%, Percentage 5.08e+01%

**Funding Details:** Number: XZX18011, Acronym: -, Sponsor: -; Number: -, Acronym: CUFE, Sponsor: Central University of Finance and Economics; Number: SC13A007, Acronym: NPOPSS, Sponsor: National Planning Office of Philosophy and Social Science;

**Funding text:** This work is partially sponsored by grant 14BGL186 of National Planning Office of Philosophy and Social Science, grant SC13A007 of Sichuan Philosophy and Social Science Planning Key Projects of China and grant XZX18011 of Project of Basic Scientific Research Operation of Central University of Southwestern University of Finance and Economics.

**Compendex references:** YES

**Database:** Compendex  
Compilation and indexing terms, Copyright 2021 Elsevier Inc.  
**Data Provider:** Engineering Village

## 25. On online engagement: Does the leadership style matter?

**Accession number:** 20190906545494  
**Authors:** Wang, Cheng-Hui (1); Liu, Gloria H.W. (2); Lee, Neil Chueh-An (3); Chen, Kuang-Jung (4)  
**Author affiliation:** (1) Da-Yeh University, Taiwan; (2) National Central University, Taiwan; (3) Ming Chuan University, Taiwan; (4) University of Hsuan Chuang, Taiwan  
**Corresponding author:** Liu, Gloria H.W.(glorialiu2007@gmail.com)  
**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)  
**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)  
**Volume:** 2018-December  
**Part number:** 1 of 1  
**Issue title:** Proceedings of the 18th International Conference on Electronic Business: AI and Smart Tourism, ICEB 2018  
**Issue date:** 2018  
**Publication year:** 2018  
**Pages:** 430-438  
**Language:** English  
**ISSN:** 16830040  
**Document type:** Conference article (CA)  
**Conference name:** 18th International Conference on Electronic Business, ICEB 2018  
**Conference date:** December 2, 2018 - December 6, 2018  
**Conference location:** Guangxi, China  
**Conference code:** 145276  
**Publisher:** International Consortium for Electronic Business  
**Abstract:** The news industry is facing tremendous changes. Integrating digital technologies into news practices has become the key to survival. Social media engagement editors are one of such innovations to respond to the challenge. Engagement editors are required to facilitate the functions of marketing, editing, content production, and data analysis. They thus play the role of boundary-spanner within and beyond the organizational boundaries. However, there are few studies to explore issues associated with the management of social media engagement editors. This research examines whether and how the leadership style (i.e., transformational and passive leadership style) influences engagement editors' job performance. We collected 122 valid responses, and used the SmartPLS 3 and SPSS 19.0 to analyze the data. Our findings indicate that performance of engagement editors is influenced by the leadership style; moreover, job autonomy mediates the positive effect of transformational leadership on engagement editors' job performance. Implications for the management of social media engagement editors are discussed. © 2018 International Consortium for Electronic Business. All rights reserved.  
**Number of references:** 78  
**Main heading:** Electronics industry  
**Controlled terms:** Electronic commerce - Leisure industry - Social networking (online) - Tourism  
**Uncontrolled terms:** Engagement editor - Job autonomy - Job performance - Passive leadership - Social media - Transformational leadership  
**Classification code:** 723 Computer Software, Data Handling and Applications  
Computer Software, Data Handling and Applications  
- 723.5 Computer Applications  
Computer Applications  
**Compendex references:** YES  
**Database:** Compendex  
Compilation and indexing terms, Copyright 2021 Elsevier Inc.  
**Data Provider:** Engineering Village

## 26. The impact of perceived risk on customers' intention to use - An empirical analysis of DiDi car-sharing services

**Accession number:** 20190906545287  
**Authors:** Liang, Xiaobei (1); Li, Jingjing (1); Xu, Zhen (1)  
**Author affiliation:** (1) Tongji University, China  
**Corresponding author:** Xu, Zhen(xuzhen2017@tongji.edu.cn)  
**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2018-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 18th International Conference on Electronic Business: AI and Smart Tourism, ICEB 2018

**Issue date:** 2018

**Publication year:** 2018

**Pages:** 644-653

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 18th International Conference on Electronic Business, ICEB 2018

**Conference date:** December 2, 2018 - December 6, 2018

**Conference location:** Guangxi, China

**Conference code:** 145276

**Publisher:** International Consortium for Electronic Business

**Abstract:** With the development of internet and modern technologies, sharing economy grows quickly and attracts more attention. Sharing platforms have more uncertainty and perceived risk, which influences the customers' intention to use. In this paper, we take DiDi, a ridesharing platform in China as a case to study. We take the perspective of customers and investigate the implications of perceived risk and trust on customers' intention to use. We conceptualized perceived risk as a multi dimension construct and differentiate trust on DiDi and trust on drivers. The study employs survey data (n = 365) and structural equation modeling (SEM). Our results provide empirical evidence for the relationship between perceived risk, trust and customers' intention to use. This research has both significant theoretical and practical implications. It applies the theory of perceived risk and trust in Chinese situation. In practice, the ridesharing platform need to pay more attention to the security of customers, thus more speculation and control on drivers are expected. © 2018 International Consortium for Electronic Business. All rights reserved.

**Number of references:** 30

**Main heading:** Risk assessment

**Controlled terms:** Electronic commerce - Electronics industry - Leisure industry - Sales - Tourism

**Uncontrolled terms:** Empirical analysis - Modern technologies - Multi dimensions - Perceived risk - Sharing economy - Sharing platforms - Structural equation modeling - Trust

**Classification code:** 723.5 Computer Applications

Computer Applications

- 914.1 Accidents and Accident Prevention

Accidents and Accident Prevention

**Compendex references:** YES

**Database:** Compendex

Compilation and indexing terms, Copyright 2021 Elsevier Inc.

**Data Provider:** Engineering Village

## 27. Credit fraud risk detection based on XGBoost-LR hybrid model

**Accession number:** 20190906545484

**Authors:** Wang, Maoguang (1); Yu, Jiayu (1); Ji, Zijian (1)

**Author affiliation:** (1) Central University of Finance and Economics, China

**Corresponding author:** Yu, Jiayu(jiayuy1212@163.com)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2018-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 18th International Conference on Electronic Business: AI and Smart Tourism, ICEB 2018

**Issue date:** 2018

**Publication year:** 2018

**Pages:** 336-343

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 18th International Conference on Electronic Business, ICEB 2018

**Conference date:** December 2, 2018 - December 6, 2018

**Conference location:** Guangxi, China

**Conference code:** 145276

**Publisher:** International Consortium for Electronic Business

**Abstract:** For a long time, the credit business has been the main business of banks and financial institutions. With the rapid growth of business scale, how to use models to detect fraud risk quickly and automatically is a hot research direction. Logistic regression has become the most widely used risk assessment model in the industry due to its good robustness and strong interpretability, but it relies on differentiated features and feature combinations. XGBoost is a powerful and convenient algorithm for feature transformation. Therefore, in this paper, XGBOOST can be used to effectively perform the advantages of feature combination, and a XGBoost-LR hybrid model is constructed. Firstly, use the data to train a XGBoost model, then give the samples in the training data to the XGBoost model to get the leaves nodes of the sample, and then use the leaves nodes after one-hot encoding as a feature to train an LR model. Using the German credit data set published by UCI to verify this model and compare AUC values with other models. The results show that this hybrid model can effectively improve the accuracy of model prediction and has a good application value. © 2018 International Consortium for Electronic Business. All rights reserved.

**Number of references:** 17

**Main heading:** Risk assessment

**Controlled terms:** Crime - Electronic commerce - Electronics industry - Leisure industry - Logistic regression - State assignment - Tourism

**Uncontrolled terms:** Credit risks - Feature combination - Feature transformations - Financial institution - Interpretability - Model prediction - Risk assessment models - XGBoost

**Classification code:** 721.1 Computer Theory, Includes Formal Logic, Automata Theory, Switching Theory, Programming Theory

Computer Theory, Includes Formal Logic, Automata Theory, Switching Theory, Programming Theory

- 723.5 Computer Applications

Computer Applications

- 914.1 Accidents and Accident Prevention

Accidents and Accident Prevention

- 971 Social Sciences

Social Sciences

**Funding Details:** Number: 61073020, Acronym: NSFC, Sponsor: National Natural Science Foundation of China;

Number: 020674115002,020676114004,020676115005, Acronym: CUFU, Sponsor: Central University of Finance and Economics;

**Funding text:** This work is supported partially by NSFC under the Agreement No. 61073020 and the Project of CUFU under the Agreement No. 020674115002, 020676114004, 020676115005.

**Compendex references:** YES

**Database:** Compendex

Compilation and indexing terms, Copyright 2021 Elsevier Inc.

**Data Provider:** Engineering Village

## 28. Fair or not: Effects of gamification elements on crowdsourcing participation

**Accession number:** 20190906545483

**Authors:** Yang, Congcong (1); Feng, Yuanyue (2); Zheng, Xizhi (2); Feng, Ye (2); Yu, Ying (2); Niu, Ben (3); Yang, Pianpian (2)

**Author affiliation:** (1) Dongguan University of Technology, China; (2) Shenzhen University, China; (3) Greater Bay Area International Institute for Innovation, Shenzhen University, China

**Corresponding author:** Feng, Yuanyue(yuanyuef@szu.edu.cn)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2018-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 18th International Conference on Electronic Business: AI and Smart Tourism, ICEB 2018

**Issue date:** 2018

**Publication year:** 2018

**Pages:** 325-335

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 18th International Conference on Electronic Business, ICEB 2018

**Conference date:** December 2, 2018 - December 6, 2018

**Conference location:** Guangxi, China



**Conference code:** 145276

**Publisher:** International Consortium for Electronic Business

**Abstract:** Fairness perceptions have been found to be a critical driving factor for solvers' engagement in crowdsourcing. However, the literature still lacks on how to design crowdsourcing platform to enhance solvers' fairness perceptions. By integrating organizational justice theory with the gamification literature, we conceptualize solvers' perceptions of two typical gamification elements: the point-rewarding perception and the feedback-giving perception. We develop model to explain the effects of gamification perceptions on both distributive and interpersonal justice perceptions, which are conducive to solvers' participation. Based on a survey of 295 solvers, we apply the partial least squares-structural equation modeling (PLS-SEM) approach to test the research model. Results show that both point-rewarding perception and feedback-giving perception can enhance the distributive and interpersonal justice perceptions which, in turn, foster solvers' crowdsourcing participation. Theoretical contributions and practical implications are discussed. © 2018 International Consortium for Electronic Business. All rights reserved.

**Number of references:** 30

**Main heading:** Crowdsourcing

**Controlled terms:** Electronic commerce - Electronics industry - Gamification - Least squares approximations - Leisure industry - Tourism

**Uncontrolled terms:** Crowdsourcing platforms - Distributive justice - Driving factors - Interpersonal justice - Organizational justice theory - Partial least square (PLS) - Research models - Structural equation modeling

**Classification code:** 723.5 Computer Applications

Computer Applications

- 921.6 Numerical Methods

Numerical Methods

**Funding Details:** Number: 2017WQNCX142,71502114,71602122,71702111, Acronym: NSFC, Sponsor: National Natural Science Foundation of China;

**Funding text:** This work is partially supported by grant 71702111, 71602122, and 71502114 from the National Natural Science Foundation of China, and grant 2017WQNCX142 of the Young Innovative Talents Project (Humanities & Social Sciences) from the Education Bureau of Guangdong Province.

**Compendex references:** YES

**Database:** Compendex

Compilation and indexing terms, Copyright 2021 Elsevier Inc.

**Data Provider:** Engineering Village

## 29. Understanding users' multi-homing intention on peer-to-peer accommodation platforms

**Accession number:** 20190906545294

**Authors:** Sun, Yongqiang (1); Ni, Linghong (1); Wang, Nan (1)

**Author affiliation:** (1) Wuhan University, China

**Corresponding author:** Sun, Yongqiang(sunyq@whu.edu.cn)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2018-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 18th International Conference on Electronic Business: AI and Smart Tourism, ICEB 2018

**Issue date:** 2018

**Publication year:** 2018

**Pages:** 709-720

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 18th International Conference on Electronic Business, ICEB 2018

**Conference date:** December 2, 2018 - December 6, 2018

**Conference location:** Guangxi, China

**Conference code:** 145276

**Publisher:** International Consortium for Electronic Business

**Abstract:** An intriguing phenomenon in short-term accommodation market is that most users would adopt more than one accommodation platforms simultaneously, instead of being committed to utilizing only one platform. However, little attention has been paid to the underlying mechanisms about why users employ multiple accommodation platforms concurrently. To bridge the research gap, this study proposes a research model to investigate users' multi-homing intention on accommodation platforms by combining benefit-cost framework, social influence and need for cognition theory. This model is tested using data collected from 437 users who have ever used multiple accommodation

platforms. Analytical results indicate that perceived information complementarity and decision complementarity contribute to users' multi-homing intention. Social influence and need for cognition have significant positive effects on the intention. Moreover, seeking cost decreases users' intention to adopt several competing platforms at the same time, while integration cost promotes the intention. At the end, implications for research and practice as well as limitations of this study are discussed. © 2018 International Consortium for Electronic Business. All rights reserved.

**Number of references:** 50

**Main heading:** Economic and social effects

**Controlled terms:** Cost benefit analysis - Electronic commerce - Electronics industry - Leisure industry - Tourism

**Uncontrolled terms:** Decision complementarity - Information complementarity - Multi-homing - Need for cognitions - Peer to peer

**Classification code:** 723.5 Computer Applications

Computer Applications

- 911 Cost and Value Engineering; Industrial Economics

Cost and Value Engineering; Industrial Economics

- 971 Social Sciences

Social Sciences

**Funding Details:** Number: 16YJC870011,17YJC630157, Acronym: MOE, Sponsor: Ministry of Education; Number: 17JZD034, Acronym: MOE, Sponsor: Ministry of Education of the People's Republic of China; Number: -, Acronym: WHU, Sponsor: Wuhan University;

**Funding text:** The work described in this paper was partially supported by the grants from the Humanities and Social Sciences Foundation of the Ministry of Education, China (Project No. 16YJC870011, 17YJC630157), the Major Project of the Ministry of Education of China (Grant No. 17JZD034), and the Research Fund for Academic Team of Young Scholars at Wuhan University (Project No. Whu2016013).

**Compendex references:** YES

**Database:** Compendex

Compilation and indexing terms, Copyright 2021 Elsevier Inc.

**Data Provider:** Engineering Village

### 30. A scientometrics review on research of knowledge sharing in virtual communities

**Accession number:** 20190906545457

**Authors:** Liang, Xiaobei (1); Liu, Ying (1)

**Author affiliation:** (1) Tongji University, China

**Corresponding author:** Liu, Ying(18168022620@163.com)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2018-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 18th International Conference on Electronic Business: AI and Smart Tourism, ICEB 2018

**Issue date:** 2018

**Publication year:** 2018

**Pages:** 62-71

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 18th International Conference on Electronic Business, ICEB 2018

**Conference date:** December 2, 2018 - December 6, 2018

**Conference location:** Guangxi, China

**Conference code:** 145276

**Publisher:** International Consortium for Electronic Business

**Abstract:** The number of literature on knowledge sharing in virtual communities has gained rapid growth during last decade; however, there have been few attempts to map the global research in this domain. In this study, the CiteSpace software package was used to conduct a series of content analyses to identify the state of the field and trends in knowledge sharing in virtual communities, including the distribution of core authors and institutions; high-frequency categories and keywords; highly cited papers and hot topics of research; and trends pertain to co-author analysis, co-word analysis, co-citation analysis, and particularly cluster analysis. We present all research focuses in a scientometric way and arrive at the following findings. First, the most significant developments and progress in knowledge sharing in virtual communities have occurred primarily in China, Taiwan, USA, Malaysia. Second, the existing studies in the field of knowledge sharing in virtual communities focus primarily on Business & Economics, Engineering and Computer Science. Third, five hot knowledge sharing in virtual communities topics were also disclosed, they are: knowledge

sharing, virtual communities, trust, behavior, management and network. © 2018 International Consortium for Electronic Business. All rights reserved.

**Number of references:** 19

**Main heading:** Social networking (online)

**Controlled terms:** Cluster analysis - Electronic commerce - Electronics industry - Information analysis - Information dissemination - Knowledge management - Leisure industry - Tourism

**Uncontrolled terms:** Citespace - Co-Citation Analysis - Engineering and computer science - High frequency HF - Highly-cited papers - Knowledge-sharing - Virtual community - Web of Science

**Classification code:** 723 Computer Software, Data Handling and Applications

Computer Software, Data Handling and Applications

- 723.5 Computer Applications

Computer Applications

- 903.1 Information Sources and Analysis

Information Sources and Analysis

- 903.2 Information Dissemination

Information Dissemination

**Funding Details:**

**Funding text:** This work is supported by grant 17YJA630050 of the Humanities and Social Sciences of Ministry of Education Planning.

**Compendex references:** YES

**Database:** Compendex

Compilation and indexing terms, Copyright 2021 Elsevier Inc.

**Data Provider:** Engineering Village

## 31. Research on innovation and strategic risk management in manufacturing firms

**Accession number:** 20190906545273

**Authors:** Qin, Yuanjian (1); Munibur Rahman, A.B.M. (1); Azim, Riasat (2)

**Author affiliation:** (1) School of Management, Wuhan University of Technology, Wuhan, Hubei, China; (2) College of Computer Science and Communication, Hunan University, China

**Corresponding author:** Munibur Rahman, A.B.M.(abmmrahman@whut.edu.cn)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2018-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 18th International Conference on Electronic Business: AI and Smart Tourism, ICEB 2018

**Issue date:** 2018

**Publication year:** 2018

**Pages:** 505-521

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 18th International Conference on Electronic Business, ICEB 2018

**Conference date:** December 2, 2018 - December 6, 2018

**Conference location:** Guangxi, China

**Conference code:** 145276

**Publisher:** International Consortium for Electronic Business

**Abstract:** Chinese manufacturing companies in Bangladesh are committed to achieving optimal investment policy for investors in different industries. The purpose of this research is the strategic risk assessment; where the research approach involves collecting qualitative data through questionnaire survey and compute variables with programmed Rough Set Theory. Researchers have identified a set of key internal and external strategic uncertainties and also accessed the most important attributes from strategic risks. Here, Sector regulation, changing the tax law and organizational governance as the most degree of risk factors in strategic risk analysis. Overall, the focus of our research is to identify strategic risk attributes and proposed a risk assessment framework by demonstrating empirical study analysis of specific industries in Bangladesh those are directly invested by Chinese investors. © 2018 International Consortium for Electronic Business. All rights reserved.

**Number of references:** 51

**Main heading:** Risk assessment

**Controlled terms:** Electronic commerce - Electronics industry - Industrial research - Investments - Leisure industry - Manufacture - Risk analysis - Risk management - Rough set theory - Surveys - Tourism

**Uncontrolled terms:** Chinese investors - Empirical studies - Manufacturing companies - Manufacturing firms - Optimal investment policy - Questionnaire surveys - Risk assessment framework - Strategic risks

**Classification code:** 537.1 Heat Treatment Processes

Heat Treatment Processes

- 723.5 Computer Applications

Computer Applications

- 901.3 Engineering Research

Engineering Research

- 914.1 Accidents and Accident Prevention

Accidents and Accident Prevention

- 921.4 Combinatorial Mathematics, Includes Graph Theory, Set Theory

Combinatorial Mathematics, Includes Graph Theory, Set Theory

- 922 Statistical Methods

Statistical Methods

**Compendex references:** YES

**Database:** Compendex

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**Data Provider:** Engineering Village

## 32. Influencing factors analysis on advertising effectiveness of news feeds ads

**Accession number:** 20190906545491

**Authors:** Tan, Chunhui (1); Hu, Tianyuan (1); Xie, Yi (1)

**Author affiliation:** (1) Central China Normal University, China

**Corresponding author:** Hu, Tianyuan(1018644277@qq.com)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2018-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 18th International Conference on Electronic Business: AI and Smart Tourism, ICEB 2018

**Issue date:** 2018

**Publication year:** 2018

**Pages:** 400-410

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 18th International Conference on Electronic Business, ICEB 2018

**Conference date:** December 2, 2018 - December 6, 2018

**Conference location:** Guangxi, China

**Conference code:** 145276

**Publisher:** International Consortium for Electronic Business

**Abstract:** News feeds ads has become one of the mainstream mobile ads. However, there are also a series of problems behind the success of feeds ads: inaccurate recommendations, information security issues, and so on. This paper studies the influencing factors of advertising marketing effect of information flow, and puts forward corresponding suggestions, which has important guiding value for enterprise marketing under the age of big data. This research uses news feeds ads as the object, adopts literature research methods, questionnaire analysis methods, etc. Through combing related documents, we have selected three evaluation indicators: advertising cognition, advertising attitude and advertising sales. In terms of aspects and advertisements, there are seven factors influencing the reliability of the platform, the popularity of the platform, the familiarity of consumer brands, the degree of consumer participation, the degree of consumer rejection of advertisements, advertising creativity and performance, and the targeting of advertisements. Put forward relevant hypotheses and verify the sample data through SPSS to draw relevant conclusions. The research shows that the reliability of the platform, the sensitivity of consumers to advertising, the familiarity of consumer brands, the degree of consumer participation, and the creative and targeted advertising all have a positive impact on the effectiveness of advertising. Based on the above conclusions, the author is the enterprise information. Streaming ads have made some targeted recommendations. © 2018 International Consortium for Electronic Business. All rights reserved.

**Number of references:** 16

**Main heading:** Marketing

**Controlled terms:** Electronic commerce - Electronics industry - Leisure industry - Publishing - Security of data - Tourism

**Uncontrolled terms:** Advertising effectiveness - Consumer participation - Evaluation indicators - Influencing factors - Influencing factors analysis - Literature researches - News feeds - Targeted advertising

**Classification code:** 723.2 Data Processing and Image Processing

Data Processing and Image Processing

- 723.5 Computer Applications

Computer Applications

- 903.2 Information Dissemination

Information Dissemination

- 911.4 Marketing

Marketing

**Funding Details:** Number: 18BTQ081, Acronym: NSSFC, Sponsor: National Office for Philosophy and Social Sciences;

**Funding text:** This work was supported by The National Social Science Fund of China (No. 18BTQ081): "Research on the Cooperation Mechanism of Scientific Researchers in Virtual Academic Community".

**Compendex references:** YES

**Database:** Compendex

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**Data Provider:** Engineering Village

### 33. A study of the research hot topics and visualization analysis of cross-border ecommerce in China

**Accession number:** 20190906545459

**Authors:** Jue, Zhang (1); Junbo, Li (1); Zhiping, Hou (1); Mang, Chen (1)

**Author affiliation:** (1) Guilin University of Technology, China

**Corresponding author:** Junbo, Li(junboli@glut.edu.cn)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2018-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 18th International Conference on Electronic Business: AI and Smart Tourism, ICEB 2018

**Issue date:** 2018

**Publication year:** 2018

**Pages:** 82-89

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 18th International Conference on Electronic Business, ICEB 2018

**Conference date:** December 2, 2018 - December 6, 2018

**Conference location:** Guangxi, China

**Conference code:** 145276

**Publisher:** International Consortium for Electronic Business

**Abstract:** With many incentive policies recently released, cross-border e-commerce has been highly concerned by all sectors of society. As an emerging research field, it has great research value. Applying SATI to the keywords in CSSCI papers relevant to CBEC from the CNKI periodical database, we undergo bibliometric and visualization study in terms of word frequency analysis. The visualization analysis reveals that: (1) hot topics in CBEC research fall into 4 areas: e-commerce and international business, government policy and supervision, cross-border logistics and cross-border e-commerce finance; (2) prospective research will focus on talent training, synergy, big data, import, customs supervision, etc. © 2018 International Consortium for Electronic Business. All rights reserved.

**Number of references:** 31

**Main heading:** Electronic commerce

**Controlled terms:** Data flow analysis - Data visualization - Electronics industry - Leisure industry - Social networking (online) - Tourism - Visualization

**Uncontrolled terms:** Co-word analysis - Cross-border - Hot topics - Incentive policies - International business - Talent trainings - Visualization analysis - Word frequencies

**Classification code:** 723 Computer Software, Data Handling and Applications

Computer Software, Data Handling and Applications

- 723.5 Computer Applications

Computer Applications

**Funding Details:** Number: -, Acronym: NPOPSS, Sponsor: National Planning Office of Philosophy and Social Science; Number: 16XGL014, Acronym: NSSFC, Sponsor: National Office for Philosophy and Social Sciences;

**Funding text:** Cross-border e-commerce (CBEC) is the future trend of cross-border trade. Although China is at the forefront of CBEC development, its transaction volume is still not satisfactory. This work is supported by National Social Science Fund (No. 16XGL014) of the National Planning Office of Philosophy and Social Science in China. It helps with further study on factors influencing the development of CBEC industry in China from the macro-environment perspective, which may lead up to a proposed model based on business ecosystem theory under a conceptual PEST framework. Authors are sincerely grateful to the anonymous reviewers and the editors for valuable comments and suggestions.

**Compendex references:** YES

**Database:** Compendex

Compilation and indexing terms, Copyright 2021 Elsevier Inc.

**Data Provider:** Engineering Village

### 34. Research on sales forecast of fresh produce considering weather factors

**Accession number:** 20190906545276

**Authors:** Wang, Xuping (1); Lin, Dongping (1); Fan, Wenping (1); Wang, Tianteng (1)

**Author affiliation:** (1) Dalian University of Technology, China

**Corresponding author:** Wang, Xuping(wxp@dlut.edu.cn)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2018-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 18th International Conference on Electronic Business: AI and Smart Tourism, ICEB 2018

**Issue date:** 2018

**Publication year:** 2018

**Pages:** 541-548

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 18th International Conference on Electronic Business, ICEB 2018

**Conference date:** December 2, 2018 - December 6, 2018

**Conference location:** Guangxi, China

**Conference code:** 145276

**Publisher:** International Consortium for Electronic Business

**Abstract:** In order to ensure the freshness of agricultural products and reduce the cost of loss due to product decay, weather factors such as weather conditions, wind level and air quality index are incorporated into the fresh agricultural product sales forecasting model. Then, based on the historical sales data of agricultural products, three machine learning methods of Ridge Regression, Random Forest and Support Vector Machine are used to perform regression prediction. The prediction results show that the fresh agricultural product sales forecasting model considering weather factors can significantly improve the prediction accuracy. The relative reduction rate of the Root Mean Square Error achieved by the three algorithms is 68.90%, 23.66% and 59.52%. And relative reduction rate of the Mean Absolute Percentage Error is 66.2%, 34.99% and 61.13%, respectively. © 2018 International Consortium for Electronic Business. All rights reserved.

**Number of references:** 56

**Main heading:** Weather forecasting

**Controlled terms:** Agricultural products - Agricultural robots - Air quality - Decision trees - Electronic commerce - Electronics industry - Learning algorithms - Learning systems - Leisure industry - Mean square error - Sales - Support vector machines - Support vector regression - Tourism

**Uncontrolled terms:** Fresh agricultural products - Fresh produce - Mean absolute percentage error - Regression predictions - Root mean square errors - Sales forecasts - Three machine learning methods - Weather factors

**Classification code:** 443 Meteorology

Meteorology

- 451.2 Air Pollution Control

Air Pollution Control

- 723 Computer Software, Data Handling and Applications

Computer Software, Data Handling and Applications

- 723.5 Computer Applications

Computer Applications

- 821.4 Agricultural Products  
 Agricultural Products  
 - 922.2 Mathematical Statistics  
 Mathematical Statistics  
 - 961 Systems Science  
 Systems Science

**Numerical data indexing:** Percentage 2.37e+01%, Percentage 3.50e+01%, Percentage 5.95e+01%, Percentage 6.11e+01%, Percentage 6.62e+01%, Percentage 6.89e+01%

**Funding Details:** Number: 71471025,71531002, Acronym: NSFC, Sponsor: National Natural Science Foundation of China; Number: -, Acronym: -, Sponsor: Fundamental Research Funds for the Central Universities;

**Funding text:** This research is supported by National Natural Science Foundation of China (Nos.71471025, 71531002) and the Fundamental Research Funds for the Central Universities (Nos. DUT17RW214).

**Compendex references:** YES

**Database:** Compendex

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**Data Provider:** Engineering Village

### 35. Research on impulse radio ultra - Wideband positioning method based on combined BP neural network and SVM

**Accession number:** 20190906545272

**Authors:** Song, Bo (1); Li, Shenglin (1); Ren, Qinghui (1); Chen, Chen (1)

**Author affiliation:** (1) Army Logistics University of PLA, China

**Corresponding author:** Song, Bo(545641621@qq.com)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2018-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 18th International Conference on Electronic Business: AI and Smart Tourism, ICEB 2018

**Issue date:** 2018

**Publication year:** 2018

**Pages:** 497-504

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 18th International Conference on Electronic Business, ICEB 2018

**Conference date:** December 2, 2018 - December 6, 2018

**Conference location:** Guangxi, China

**Conference code:** 145276

**Publisher:** International Consortium for Electronic Business

**Abstract:** Intelligent tour guide is a comprehensive service based on tourist's location, which is closely related to Geographic Information System (GIS), mobile positioning technology and Location-Based Service (LBS). But the intelligent tour guide field urgently needs the integrated positioning and navigation technology inside and outside the room. IR-UWB technology is suitable for positioning, tracking, navigation and communication in complex indoor environment, and is considered as the most potential indoor positioning technology to realize seamless connection between indoor and outdoor with outdoor positioning technologies such as GPS. However, one of the main problems facing IR-UWB positioning is Non-Line-Of-Sight (NLOS) error. Based on the advantages of BP neural network and support vector machine, this paper proposes a multi-model fusion algorithm to mitigate the NLOS propagation error of the time difference of arrival (TDOA) and the angle of arrival (AOA) of IR-UWB signal, and then uses TDOA/AOA hybrid positioning that mitigates the NLOS error. Simulation results show that the combined algorithm has stronger NLOS resistance and higher positioning accuracy than the single machine learning algorithm in mitigation NLOS errors. © 2018 International Consortium for Electronic Business. All rights reserved.

**Number of references:** 9

**Main heading:** Ultra-wideband (UWB)

**Controlled terms:** Backpropagation - Electronic commerce - Electronics industry - Errors - Indoor positioning systems - Leisure industry - Location based services - Neural networks - Support vector machines - Telecommunication services - Time difference of arrival - Tourism

**Uncontrolled terms:** Comprehensive services - Hybrid positioning - Impulse radio ultra-wideband - Integrated Positioning - Multi-model fusion - Navigation technology - Non-line of sight errors - Tour guide

**Classification code:** 716 Telecommunication; Radar, Radio and Television

Telecommunication; Radar, Radio and Television

- 716.3 Radio Systems and Equipment

Radio Systems and Equipment

- 723 Computer Software, Data Handling and Applications

Computer Software, Data Handling and Applications

**Funding Details:**

**Funding text:** The authors would like to thank Wymeersch H for providing the dataset of UWB waveforms. This work is supported by the Department of Military Logistics, Army Logistics University of PLA

**Compendex references:** YES

**Database:** Compendex

Compilation and indexing terms, Copyright 2021 Elsevier Inc.

**Data Provider:** Engineering Village

## 36. An economic analysis of incentivized positive reviews

**Accession number:** 20190906545298

**Authors:** Chen, J.Q. (1); Guo, Zhiling (2); Huang, Jian (3)

**Author affiliation:** (1) University of Texas, Dallas, United States; (2) Singapore Management University, Singapore, Singapore; (3) Nanjing University of Finance and Economics, China

**Corresponding author:** Chen, J.Q.(chenjq@utdallas.edu)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2018-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 18th International Conference on Electronic Business: AI and Smart Tourism, ICEB 2018

**Issue date:** 2018

**Publication year:** 2018

**Pages:** 743-746

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 18th International Conference on Electronic Business, ICEB 2018

**Conference date:** December 2, 2018 - December 6, 2018

**Conference location:** Guangxi, China

**Conference code:** 145276

**Publisher:** International Consortium for Electronic Business

**Abstract:** It becomes increasingly popular that some large online retailers such as Amazon open their platforms to allow third-party retail competitors to sell on their own platforms. We develop an analytical model to examine this retailer marketplace model and its business impact. We assume that a leading retailer has both valuation advantage that may come from its reputation and information advantage that may come from its brand awareness. We find that the availability of relatively low-cost advertising through social media or search engine can effectively reduce the leading retailer's information advantage, and thus be an important driving force for its strategic decision to open its platform. Not only does the advertising option directly make small sellers more visible to consumers, but also incentivizes the online retailer to open its platform and dramatically increases small sellers' exposure, indirectly contributing to an even more prominent long tail phenomenon in e-commerce. © 2018 International Consortium for Electronic Business. All rights reserved.

**Number of references:** 37

**Main heading:** Sales

**Controlled terms:** Costs - Economic analysis - Electronic commerce - Electronics industry - Leisure industry - Search engines - Tourism

**Uncontrolled terms:** Brand awareness - Business impact - Cash-back rebate - Driving forces - Pricing decision - Social media - Strategic decisions - Third parties

**Classification code:** 723 Computer Software, Data Handling and Applications

Computer Software, Data Handling and Applications

- 723.5 Computer Applications

Computer Applications

- 911 Cost and Value Engineering; Industrial Economics

Cost and Value Engineering; Industrial Economics

- 911.2 Industrial Economics



Industrial Economics

**Funding Details:** Number: 71371089,71771114, Acronym: NSFC, Sponsor: National Natural Science Foundation of China;

**Funding text:** This work is partially supported by grant NSFC No. 71371089, 71771114.

**Compendex references:** YES

**Database:** Compendex

Compilation and indexing terms, Copyright 2021 Elsevier Inc.

**Data Provider:** Engineering Village

### 37. AI city's solar energy collaborative commerce and sharing economy

**Accession number:** 20190906545461

**Authors:** Hsu, Karry Kailin (1)

**Author affiliation:** (1) Taiwan Chengchi University, Taiwan

**Corresponding author:** Hsu, Karry Kailin(karry@felizcg.com)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2018-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 18th International Conference on Electronic Business: AI and Smart Tourism, ICEB 2018

**Issue date:** 2018

**Publication year:** 2018

**Pages:** 98-105

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 18th International Conference on Electronic Business, ICEB 2018

**Conference date:** December 2, 2018 - December 6, 2018

**Conference location:** Guangxi, China

**Conference code:** 145276

**Publisher:** International Consortium for Electronic Business

**Abstract:** The advent of artificial intelligence has brought many changes in people's lives, and because of the rise of artificial intelligence, the city has gradually become a smart city. Smart City, as defined in Wikipedia, is an urban area that uses different types of electronic data collection sensors to supply information which is used to manage assets and resources efficiently. It is evident that the city cannot function without water, electricity and air. Especially electricity, due to the development of technology and the internet, has been the most important origin of resource in the city. Under such resources, two important groups are generated: the sharing of people and the resources of electricity. People represents the grouping benefits, which made the sharing economy more rationalized and creative because of the internet platforms. As stated in Wikipedia, sharing is to fully utilize resources for more efficient use, so to raise up the overall efficiency of the resources. So as solar energy, a natural resource, has existed on the earth for a long time like the air. These will be the most important components in a smart city. However, with the current Internet technology platform, the artificial intelligence, AI, will be a tool under the system we are already familiar with. Artificial intelligence such as AI uses the knowledge that the machine obtains from the use of input data and information. It's a way to let machine learn from the data first and then allows the machine to automatically calculate and judge the corresponding results. Such artificial intelligence is applied in the computing system of many industries, it reduces many possible errors, and relatively improves the efficiency of problem solving, and significantly increased the efficiency of obtaining new messages and information to users. Both supervised and unsupervised learning methods will be applied to the case study of this study. How to make the relationship between platform and consumer supervised, let AI artificial intelligence because supervised learning is only given some training samples of the machine, and inform the sample category, allowing AI judge automatically the conclusion of the samples, and accurately pass it to create information on the shared solar business platform. Consumer psychology is also the focus of this research. Investors' transparency and simplicity in the application of goods, as well as the most important investment rewards and independency of consumers, will also be a discussion focus of this study. In this paper, the smart city of AI artificial intelligence allows the solar energy to create a business-style analysis of the economy, design, finds a platform model to establish Internet sharing, and achieve a large circulation and sharing of demanders and suppliers. This article uses the traditional field of goods, combined with the needs of multiple resources sharing and co-creation, combined to solve the existing information shortage and cross-domain strangeness. Utilizing the case study of solar energy company's discussion method, the smart city solar energy will create a commercial business entity, so that people can participate and identify with such industry, and then find more business models to create and share, and the realization of smart cities as a

sharing platform mechanism all people shall be involved. © 2018 International Consortium for Electronic Business. All rights reserved.

**Number of references:** 4

**Main heading:** Information management

**Controlled terms:** Artificial intelligence - Electronic commerce - Electronics industry - Investments - Learning systems - Leisure industry - Problem solving - Smart city - Solar energy - Tourism - Unsupervised learning

**Uncontrolled terms:** Collaborative commerce - Commercial business - Electronic data collection - Internet technology - Overall efficiency - Resource sharing - Sharing economy - Supervised and unsupervised learning

**Classification code:** 657.1 Solar Energy and Phenomena

Solar Energy and Phenomena

- 723.4 Artificial Intelligence

Artificial Intelligence

- 723.5 Computer Applications

Computer Applications

**Compendex references:** YES

**Database:** Compendex

Compilation and indexing terms, Copyright 2021 Elsevier Inc.

**Data Provider:** Engineering Village

### 38. Identifying factors affecting digital transformation of SMEs

**Accession number:** 20190906545488

**Authors:** Tarute, Asta (1); Duobiene, Jurga (1); Kloviene, Lina (1); Vitkauskaitė, Elena (1); Varaniute, Viktorija (1)

**Author affiliation:** (1) Kaunas University of Technology, Lithuania

**Corresponding author:** Vitkauskaitė, Elena(elena.vitkauskaitė@ktu.lt)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2018-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 18th International Conference on Electronic Business: AI and Smart Tourism, ICEB 2018

**Issue date:** 2018

**Publication year:** 2018

**Pages:** 373-381

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 18th International Conference on Electronic Business, ICEB 2018

**Conference date:** December 2, 2018 - December 6, 2018

**Conference location:** Guangxi, China

**Conference code:** 145276

**Publisher:** International Consortium for Electronic Business

**Abstract:** The paper is motivated by a need to encourage a more profound understanding of digital transformation issues in the context of small and medium enterprises (SMEs). This paper aims to identify the essential factors that determine the digital transformation of SMEs. We began by reflecting on the concept and usage of digital transformation in companies of different type and size. With this appreciation, we then elaborated upon the challenges of digital transformation for SMEs. In this context, we overviewed the scientific literature concerning the factors which influence the process of digital transformation and are significant for SMEs. Finally, in the light of our reflections, we suggested the set of factors which should be taken into account moving towards the digitalization of SMEs. By focusing on the key factors of the digital transformation of SMEs, we provided some contributions. First of all, we articulated a categorization regarding internal and external factors in relation to the digital transformation of SMEs. Future research should pay more attention to external factors, and verify empirically the significance of the factors identified. © 2018 International Consortium for Electronic Business. All rights reserved.

**Number of references:** 51

**Main heading:** Tourism

**Controlled terms:** Electronic commerce - Electronics industry - Leisure industry

**Uncontrolled terms:** Digital transformation - Digitalization - External factors - Factors - Internal and external factors - Scientific literature - Small and medium enterprise - SMEs

**Classification code:** 723.5 Computer Applications

Computer Applications

**Funding Details:** Number: PP32/1809, Acronym: -, Sponsor: -;

**Funding text:** This research was supported by the Research, Development and Innovation Fund of Kaunas University of Technology (PP32/1809).

**Compendex references:** YES

**Database:** Compendex

Compilation and indexing terms, Copyright 2021 Elsevier Inc.

**Data Provider:** Engineering Village

### 39. K-means algorithm for recognizing fraud users on a bitcoin exchange platform

**Accession number:** 20190906545492

**Authors:** Wang, Yanfeng (1); Li, Feng (1); Hu, Jinya (1); Zhuang, Dong (1)

**Author affiliation:** (1) School of Business Administration, South China University of Technology, China

**Corresponding author:** Wang, Yanfeng(bmyfwang@mail.scut.edu.cn)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2018-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 18th International Conference on Electronic Business: AI and Smart Tourism, ICEB 2018

**Issue date:** 2018

**Publication year:** 2018

**Pages:** 411-420

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 18th International Conference on Electronic Business, ICEB 2018

**Conference date:** December 2, 2018 - December 6, 2018

**Conference location:** Guangxi, China

**Conference code:** 145276

**Publisher:** International Consortium for Electronic Business

**Abstract:** This paper addresses recognizing fraud users on a Bitcoin exchange website-bitcoin-otc. According to online rating records provided by the website, some users behave significantly different from others. Seeing that, the classical K-means clustering algorithm is proposed to identify these abnormal users. K-means algorithm is an unsupervised clustering algorithm that clusters users based on feature similarity. Therefore, performance of K-means algorithm relies on the features. This paper explored and found the best collection of features based on real record data, e.g., mean of total ratings sent. Since the selected features are not observed for record set, the website should offer these features for potential traders. © 2018 International Consortium for Electronic Business. All rights reserved.

**Number of references:** 19

**Main heading:** K-means clustering

**Controlled terms:** Bitcoin - Crime - Electronics industry - Leisure industry - Tourism - Websites

**Uncontrolled terms:** Classical k-means - Feature similarities - Fraud detection - Online ratings - Unsupervised clustering algorithm

**Classification code:** 971 Social Sciences

Social Sciences

**Funding Details:** Number: Y9161010, Acronym: SCUT, Sponsor: South China University of Technology;

**Funding text:** This work is partially supported by the Education and Teaching Reform Project of the South China University of Technology (Y9161010).

**Compendex references:** YES

**Database:** Compendex

Compilation and indexing terms, Copyright 2021 Elsevier Inc.

**Data Provider:** Engineering Village

### 40. Construction of a personalized service model of ABC community fresh E-commerce based on small data

**Accession number:** 20190906545469

**Authors:** Shang, Chengguo (1); Zhang, Zhigao (1); Zhang, Qiuxia (1)

**Author affiliation:** (1) Shanxi University of Finance and Economics, Taiyuan, China

**Corresponding author:** Zhang, Zhigao(Zhangzhigao001@163.com)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2018-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 18th International Conference on Electronic Business: AI and Smart Tourism, ICEB 2018

**Issue date:** 2018

**Publication year:** 2018

**Pages:** 171-179

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 18th International Conference on Electronic Business, ICEB 2018

**Conference date:** December 2, 2018 - December 6, 2018

**Conference location:** Guangxi, China

**Conference code:** 145276

**Publisher:** International Consortium for Electronic Business

**Abstract:** The homogenization of products and services in the development of community fresh e-commerce is more serious, and providing personalized services to community customers has become a new development key point. From the perspective of small data research, this paper proposes an e-commerce service model that uses small data to provide personalized fresh products for community customers. Taking ABC community convenience store as the research object, the paper analyzes the application of community customer small data in the personalized service of community fresh convenience store to improve the loyalty and satisfaction of community customers and promote the development of community fresh e-commerce. © 2018 International Consortium for Electronic Business. All rights reserved.

**Number of references:** 10

**Main heading:** Electronic commerce

**Controlled terms:** Customer satisfaction - Electronics industry - Leisure industry - Sales - Tourism

**Uncontrolled terms:** Convenience stores - E-commerce services - Keypoints - Mode - Personalized service - Products and services - Research object - Small data

**Classification code:** 723.5 Computer Applications

Computer Applications

**Funding Details:** Number: -, Acronym: -, Sponsor: Department of Education, Shanxi Province;

**Funding text:** This research was supported partly by the following fund projects: (1) Shanxi Province's e-commerce specialty Jingao Jiao (2013) No. 16, Shanxi Provincial Department of Education. (2) Research on the development of characteristic agriculture in Shanxi based on e-commerce perspective, Shanxi Provincial Philosophy and Social Science Planning Office, Jin Regulation Office (2014), No.3. (3) Research on e-commerce visual design norms based on five-dimensional perspective, CCPIT commercial industry branch commercial informationization research "13th Five-Year Plan" 2016 project, commerce promotion word (2016), No. 30. (4) Research on e-commerce promotion project of characteristic agricultural products in Shanxi Province, research project of key projects of the Provincial Social Science Association from 2017 to 2018 SSKLZDKT2017047, Jinshe Lianzi (2017), No. 29.

**Compendex references:** YES

**Database:** Compendex

Compilation and indexing terms, Copyright 2021 Elsevier Inc.

**Data Provider:** Engineering Village

## 41. Design of back-end of recommendation systems using collective intelligence social tagging

**Accession number:** 20190906545472

**Authors:** Sharma, Ravi S. (1); Kale, Rati (1)

**Author affiliation:** (1) University of Canterbury, Christchurch, New Zealand

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2018-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 18th International Conference on Electronic Business: AI and Smart Tourism, ICEB 2018

**Issue date:** 2018

**Publication year:** 2018

**Pages:** 204-220

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 18th International Conference on Electronic Business, ICEB 2018

**Conference date:** December 2, 2018 - December 6, 2018

**Conference location:** Guangxi, China

**Conference code:** 145276

**Publisher:** International Consortium for Electronic Business

**Abstract:** Recommendation systems are the tools whose purpose is to suggest relevant products or services to the customers. In a movie business website, the recommendation system provides users with more options, classify movies under different types to assist in arriving at a decision. Although, with current e-commerce giants focusing on hybrid filtering approach, we have decided to explore the functionality of Content-based recommendation system. This research paper aims to delve deeper into the content-based recommendation system and adding tags to enhance its functionality. The content-based approach is more fit to the movie recommendation as it overcomes the 'cold start' issue faced by the collaborative filtering approach, meaning, even with no ratings for a movie, it can still be recommended. The proposed method is to solve the less 'data categorization' issue in content-based filtering. Collective Intelligence Social Tagging System (CIST) aims at making a significant difference in content-based recommendation system to enrich the item profile and provide more accurate suggestions. The main GIST of CIST is to involve the users to contribute in tagging to build a more robust system in online movie businesses. Tags in the millennial world are the 'go to' words that everyone looks up to in an online world of E-commerce. It's the easiest way of telling a story without actual long sentences. We recommended three main solutions for the concerns of CIST, (a) clustering of tags to avoid synonymous tag confusion and create a metadata for movies under same tags, (b) 5 criteria model to motivate and give the most amount of genuine information for end users to trust and eventually contribute in tagging, and (c) clear way of distinguishing and displaying tags to separate primary tags and secondary tags and give a chance to the users to assess whether the given tags reflect the relevant theme of the film. © 2018 International Consortium for Electronic Business. All rights reserved.

**Number of references:** 32

**Main heading:** Recommender systems

**Controlled terms:** Collaborative filtering - Electronic commerce - Electronics industry - Leisure industry - Motion pictures - Social networking (online) - Starting - Tourism

**Uncontrolled terms:** Business website - Collective intelligences - Content based filtering - Content-based approach - Content-based recommendation - Hybrid filtering - Movie recommendations - Social tagging systems

**Classification code:** 723 Computer Software, Data Handling and Applications

Computer Software, Data Handling and Applications

- 723.5 Computer Applications

Computer Applications

- 903.1 Information Sources and Analysis

Information Sources and Analysis

**Funding text:** Boosting sales via online purchases is supported by better and more accurate recommendations. A good RS can be a reason to upscale or downscale the cart size. The recommendation system is categorized into three types – collaborative, content-based and hybrid approaches. The online players not having a huge database or warehouse depends on the content-based approach. The content-based approach sometimes leads to less than accurate recommendation results (Ziad & Najafi, 2016). Our research paper aims to address this issue and propose a revolutionary method to mitigate the weaknesses of content-based RS by combining it with social tagging based on crowdsourcing.

**Compendex references:** YES

**Database:** Compendex

Compilation and indexing terms, Copyright 2021 Elsevier Inc.

**Data Provider:** Engineering Village

## 42. Social capital dimensions in virtual world platforms

**Accession number:** 20190906545280

**Authors:** Nazir, Mohamed (1); Hamilton, John (1); Tee, Singwhat (1)

**Author affiliation:** (1) James Cook University, Cairns; QLD, Australia

**Corresponding author:** Nazir, Mohamed(mohamed.mohamed@my.jcu.edu.au)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2018-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 18th International Conference on Electronic Business: AI and Smart Tourism, ICEB 2018

**Issue date:** 2018

**Publication year:** 2018

**Pages:** 578-585

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 18th International Conference on Electronic Business, ICEB 2018

**Conference date:** December 2, 2018 - December 6, 2018

**Conference location:** Guangxi, China

**Conference code:** 145276

**Publisher:** International Consortium for Electronic Business

**Abstract:** This study investigates the three dimensions (cognitive, relational, and structural) of social capital within social, gaming, and mixed virtual world platforms. Utilising ANOVA in examining data collected from three different virtual worlds' users (Second Life, World of Warcraft, and Entropia Universe). Finding supports no significant differences between cognitive (shared values and language) and relational (trust) social capital between the different virtual world platform. However, there are significant differences in structural social capital (network ties) between the different types of virtual world platforms. The study findings help virtual world operators, developers, and business in understanding the social capital dimensions needed to build stronger social capital, and trust, between the virtual world community participants, developers, and business. © 2018 International Consortium for Electronic Business. All rights reserved.

**Number of references:** 59

**Main heading:** Virtual reality

**Controlled terms:** Electronic commerce - Electronics industry - Leisure industry - Tourism

**Uncontrolled terms:** Cognitive - Network tie - Second Life - Shared values - Social capitals - Structural - Three dimensions - Virtual worlds

**Classification code:** 723 Computer Software, Data Handling and Applications

Computer Software, Data Handling and Applications

- 723.5 Computer Applications

Computer Applications

**Compendex references:** YES

**Database:** Compendex

Compilation and indexing terms, Copyright 2021 Elsevier Inc.

**Data Provider:** Engineering Village

### **43. Cross-border e-commerce development strategy under the "Internet + Logistics Finance" model**

**Accession number:** 20190906545471

**Authors:** Zhang, Jiaqi (1)

**Author affiliation:** (1) University of International Business and Economics, China

**Corresponding author:** Zhang, Jiaqi(zhangjq86@foxmail.com)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2018-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 18th International Conference on Electronic Business: AI and Smart Tourism, ICEB 2018

**Issue date:** 2018

**Publication year:** 2018

**Pages:** 193-203

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 18th International Conference on Electronic Business, ICEB 2018

**Conference date:** December 2, 2018 - December 6, 2018

**Conference location:** Guangxi, China

**Conference code:** 145276

**Publisher:** International Consortium for Electronic Business

**Abstract:** In recent years, the rise of cross-border e-commerce in China has been relatively rapid, and the proportion of cross-border e-commerce in import and export trade has continued to increase. Cross-border e-commerce plays an

extremely important role in promoting China's trade transformation and has become a new model of international trade. But the prosperity of any field is inseparable from the strong support of funds. This paper identifies the risk factors that may arise when cross-border e-commerce applications are applied to these models. Then analyzes and evaluates them in order to provide decision-making reference for cross-border e-commerce enterprises that have financing needs or plan to apply logistics finance. © 2018 International Consortium for Electronic Business. All rights reserved.

**Number of references:** 10

**Main heading:** Electronic commerce

**Controlled terms:** Analytic hierarchy process - Decision making - Electronics industry - Finance - International trade - Leisure industry - Risk assessment - Tourism

**Uncontrolled terms:** Cross-border - E-Commerce applications - E-commerce development - E-commerce enterprise - Import and export trade - Logistics finances - Model Selection - Risk factors

**Classification code:** 723.5 Computer Applications

Computer Applications

- 912.2 Management

Management

- 914.1 Accidents and Accident Prevention

Accidents and Accident Prevention

- 961 Systems Science

Systems Science

**Compendex references:** YES

**Database:** Compendex

Compilation and indexing terms, Copyright 2021 Elsevier Inc.

**Data Provider:** Engineering Village

#### 44. Cold chain logistics management

**Accession number:** 20190906545468

**Authors:** Tai, Chih-Chung (1)

**Author affiliation:** (1) National Chengchi University, Taiwan

**Corresponding author:** Tai, Chih-Chung(michaeltai.1958@gmail.com)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2018-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 18th International Conference on Electronic Business: AI and Smart Tourism, ICEB 2018

**Issue date:** 2018

**Publication year:** 2018

**Pages:** 163-170

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 18th International Conference on Electronic Business, ICEB 2018

**Conference date:** December 2, 2018 - December 6, 2018

**Conference location:** Guangxi, China

**Conference code:** 145276

**Publisher:** International Consortium for Electronic Business

**Abstract:** Cold chain logistics is a very complicated issue. Many foods are picked up when meat is slaughtered from animals, there is a certain S.O.P. to save. But because the whole industry chain is very long, many step will affect the safety of food. Whether it is eating fresh food, or using vaccine drugs, it needs to be transported through the cold chain. © 2018 International Consortium for Electronic Business. All rights reserved.

**Number of references:** 2

**Main heading:** Food safety

**Controlled terms:** Accident prevention - Electronic commerce - Electronics industry - Leisure industry - Tourism

**Uncontrolled terms:** Cold chain - Cold chain logistics - Fresh food - Halal logistics - Industry chain - Safety of food

**Classification code:** 461.6 Medicine and Pharmacology

Medicine and Pharmacology

- 723.5 Computer Applications

Computer Applications

- 914.1 Accidents and Accident Prevention

Accidents and Accident Prevention

**Compendex references:** YES

**Database:** Compendex

Compilation and indexing terms, Copyright 2021 Elsevier Inc.

**Data Provider:** Engineering Village

## 45. Do customers perceive reviews as manipulated? A warranting theory perspective

**Accession number:** 20190906545476

**Authors:** Ansari, Sana (1); Gupta, Sumeet (1); Dewangan, Jyotirmay (2)

**Author affiliation:** (1) Indian Institute of Management, Raipur, India; (2) Flipkart India Pvt. Ltd., India

**Corresponding author:** Gupta, Sumeet(sumeetgupta@iimraipur.ac.in)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2018-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 18th International Conference on Electronic Business: AI and Smart Tourism, ICEB 2018

**Issue date:** 2018

**Publication year:** 2018

**Pages:** 250-264

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 18th International Conference on Electronic Business, ICEB 2018

**Conference date:** December 2, 2018 - December 6, 2018

**Conference location:** Guangxi, China

**Conference code:** 145276

**Publisher:** International Consortium for Electronic Business

**Abstract:** Online customer reviews proved to have an influence on customer's purchase. However, most online reviews don't always prove effective in guiding the purchase process, because of fake reviews. While e-commerce platforms do tend to incorporate ways to counter review manipulation, customer perception on review quality is more important. In this study we aim to understand the impression mechanism of online reviews. Using warranting theory, as theoretical lens we found that textual and review characteristics play a crucial role in forming an impression amongst the customers. Further, research suggest that higher contamination of reviews influence customers to perceive reviews less authentic. © 2018 International Consortium for Electronic Business. All rights reserved.

**Number of references:** 45

**Main heading:** Sales

**Controlled terms:** Electronic commerce - Electronics industry - Leisure industry - Purchasing - Tourism

**Uncontrolled terms:** Customer perceptions - Online customer reviews - Online reviews - Perceived manipulations - Review quality - Warranting theory

**Classification code:** 723.5 Computer Applications

Computer Applications

**Compendex references:** YES

**Database:** Compendex

Compilation and indexing terms, Copyright 2021 Elsevier Inc.

**Data Provider:** Engineering Village

## 46. The evolution of e-commerce service ecosystem

**Accession number:** 20190906545284

**Authors:** Gui, Xuwen (1); Mei, Huijie (1); Wu, Yue (2)

**Author affiliation:** (1) Central China Normal University, China; (2) Wuhan University, China

**Corresponding author:** Mei, Huijie(1547782245@qq.com)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2018-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 18th International Conference on Electronic Business: AI and Smart Tourism, ICEB 2018

**Issue date:** 2018



**Publication year:** 2018

**Pages:** 614-625

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 18th International Conference on Electronic Business, ICEB 2018

**Conference date:** December 2, 2018 - December 6, 2018

**Conference location:** Guangxi, China

**Conference code:** 145276

**Publisher:** International Consortium for Electronic Business

**Abstract:** On the basis of defining e-commerce service ecosystem (ECSEM), we elaborated its population constitution and structure, drew on the theory of industrial ecosystem and the development course of e-commerce in China to discuss the evolutionary path and process, and concretely analyze the evolutionary process and characteristics of crucial components included in this ecosystem, such as all kinds of service providers, competitors, industrial rule and standard systems, etc. In the end, a case of Alibaba's ECSEM and its evolution was analyzed to testify our study. This paper aimed to build the basic theory of ECSEM and reveal its evolutionary process and laws, so as to provide reference for the construction and development of ECSEM. © 2018 International Consortium for Electronic Business. All rights reserved.

**Number of references:** 27

**Main heading:** Ecosystems

**Controlled terms:** Electronic commerce - Electronics industry - Leisure industry - Tourism

**Uncontrolled terms:** Alibaba - E-commerce services - Evolution - Evolutionary path - Evolutionary process - Industrial ecosystems - Service provider - Standard system

**Classification code:** 454.3 Ecology and Ecosystems

Ecology and Ecosystems

- 723.5 Computer Applications

Computer Applications

**Compendex references:** YES

**Database:** Compendex

Compilation and indexing terms, Copyright 2021 Elsevier Inc.

**Data Provider:** Engineering Village

## **47. Understanding booking intention of consumers in online short rental platforms: Social presence, perceived social benefits, and trust**

**Accession number:** 20190906545291

**Authors:** Zhang, Jing (1); Cao, Yunzhong (1); Ma, Yuanhong (1); Li, Liangqiang (1)

**Author affiliation:** (1) Sichuan Agricultural University, Dujiangyan, China

**Corresponding author:** Cao, Yunzhong(caoyz@sicau.edu.cn)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2018-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 18th International Conference on Electronic Business: AI and Smart Tourism, ICEB 2018

**Issue date:** 2018

**Publication year:** 2018

**Pages:** 682-689

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 18th International Conference on Electronic Business, ICEB 2018

**Conference date:** December 2, 2018 - December 6, 2018

**Conference location:** Guangxi, China

**Conference code:** 145276

**Publisher:** International Consortium for Electronic Business

**Abstract:** For studying the whole process of online short rental platform consumers, which start from the attention to the booking intention, this paper based on the social presence theory, analyzed the consumers' online short rental booking intention from the social perspective. Taking the consumers' perceived social benefits and trust as mediators, we explored the process and mechanism of consumers' booking intention on the short rental platform and constructs a

research model of consumer online short rental booking intention. Then, the empirical studies have shown that social presence can influence consumers' booking intention by increasing their perceived social benefits and trust. Finally, based on the results, the recommendations of online short rental platform and the host were put forward. © 2018 International Consortium for Electronic Business. All rights reserved.

**Number of references:** 38

**Main heading:** Economic and social effects

**Controlled terms:** Electronic commerce - Electronics industry - Leisure industry - Tourism

**Uncontrolled terms:** Booking intention - Online short rental - Social benefits - Social presence - Trust

**Classification code:** 723.5 Computer Applications

Computer Applications

- 971 Social Sciences

Social Sciences

**Funding Details:** Number: -, Acronym: -, Sponsor: Education Department of Sichuan Province;

**Funding text:** This work is partially supported by grant SDJJ1607 of Sichuan national mountain economic development research center, the key humanities and social sciences research from the Sichuan provincial department of education.

**Compendex references:** YES

**Database:** Compendex

Compilation and indexing terms, Copyright 2021 Elsevier Inc.

**Data Provider:** Engineering Village

## 48. Getting older ones' feet wet: Older adults' adoption intention of gerontechnology of mobile bathtubs

**Accession number:** 20190906545485

**Authors:** Joseph, Saramma (1); Teh, Pei-Lee (1); Thiry, Jeffery Yeow Teh (1); Ming, Stefan Chew Kien (2)

**Author affiliation:** (1) Monash University Malaysia, Malaysia; (2) IMagic-BOX, Malaysia

**Corresponding author:** Teh, Pei-Lee(teh.pei.lee@monash.edu)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2018-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 18th International Conference on Electronic Business: AI and Smart Tourism, ICEB 2018

**Issue date:** 2018

**Publication year:** 2018

**Pages:** 344-352

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 18th International Conference on Electronic Business, ICEB 2018

**Conference date:** December 2, 2018 - December 6, 2018

**Conference location:** Guangxi, China

**Conference code:** 145276

**Publisher:** International Consortium for Electronic Business

**Abstract:** Global aging has led to increasing concern for the health and well-being of older adults. Family members generally care for older adults' needs, yet current trends suggest more independent lifestyles for older adults.

Therefore, a better understanding of older adults' adoption intention of new gerontechnology is needed. This study adopts a two-stage approach (focus group discussions and survey research) to examine the factors of older adults' adoption intention of gerontechnology namely, mobile bathtubs. The findings show that perceived ease of use and perceived usefulness, along with specific design features of mobile bathtub were determinants of adoption intention among older adults. © 2018 International Consortium for Electronic Business. All rights reserved.

**Number of references:** 22

**Main heading:** Tourism

**Controlled terms:** Electronic commerce - Electronics industry - Leisure industry

**Uncontrolled terms:** Adoption intention - Gerontechnology - Mobile bathtubs - Older adults - Perceived ease of use - Perceived usefulness - Technology acceptance model - Two stage approach

**Classification code:** 723.5 Computer Applications

Computer Applications

**Funding Details:** Number: GA21, Acronym: -, Sponsor: Monash University Malaysia;

**Funding text:** The authors would like to acknowledge the financial support from iMagic-BOX (Project Code: BUS/MagicBox/09-2016/005) and Monash University Malaysia's School of Business, Gerontechnology Laboratory, Health and Well-Being Cluster, Global Asia in the 21st Century (GA21) Platform. They thank Teh Yi Ling, Chan Shi Yuan and Kuan Li Jean for their assistance in data collection. They also appreciate the participants' support during this study.

**Compendex references:** YES

**Database:** Compendex

Compilation and indexing terms, Copyright 2021 Elsevier Inc.

**Data Provider:** Engineering Village

## 49. An empirical investigation of culture's influence in online service ratings: From the perspective of uncertainty avoidance

**Accession number:** 20190906545463

**Authors:** Xu, Dapeng (1); Wu, Jiajun (1); Hong, Hong (2); Xu, Di (1); Li, Rong (1)

**Author affiliation:** (1) School of Management, Xiamen University, China; (2) School of Management, Harbin Institute of Technology, China

**Corresponding author:** Hong, Hong(honghong@hit.edu.cn)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2018-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 18th International Conference on Electronic Business: AI and Smart Tourism, ICEB 2018

**Issue date:** 2018

**Publication year:** 2018

**Pages:** 115-123

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 18th International Conference on Electronic Business, ICEB 2018

**Conference date:** December 2, 2018 - December 6, 2018

**Conference location:** Guangxi, China

**Conference code:** 145276

**Publisher:** International Consortium for Electronic Business

**Abstract:** In order to figure out the influence of consumers' cultural background on their online review generation behavior, this study aims to investigate how consumers' uncertainty avoidance values influence their online ratings. Utilizing data collected from a major travel review website, TripAdvisor, we find a negative relationship between uncertainty avoidance degree and online review rating. Consumers' travel type and hotel star are found to have a moderating effect between consumers' uncertainty avoidance and their online ratings. Moreover, the negative effect of uncertainty avoidance value on review rating is weaker for consumers on business travel, and this effect also decreases for upscale hotels. The results are further confirmed by a robustness check using another method. From a theoretical perspective, our study enriches existing literature dealing with online reviews. From a practical perspective, our research findings provide helpful insights to hotel practitioners. © 2018 International Consortium for Electronic Business. All rights reserved.

**Number of references:** 30

**Main heading:** Consumer behavior

**Controlled terms:** Electronic commerce - Electronics industry - Hotels - Leisure industry - Service industry - Tourism

**Uncontrolled terms:** Cultural difference - Hotel industry - Online ratings - Service evaluation - Uncertainty avoidance

**Classification code:** 402.2 Public Buildings

Public Buildings

- 723.5 Computer Applications

Computer Applications

- 931.3 Atomic and Molecular Physics

Atomic and Molecular Physics

**Funding Details:** Number: 2018M640300, Acronym: -, Sponsor: China Postdoctoral Science Foundation; Number: 71801063, Acronym: NSFC, Sponsor: National Natural Science Foundation of China;

**Funding text:** This work was partially supported by the China Postdoctoral Science Foundation (Grant # 2018M640300) and the National Natural Science Foundation of China (Grant # 71671153, 71801063, and 91746103).

**Compendex references:** YES

**Database:** Compendex

Compilation and indexing terms, Copyright 2021 Elsevier Inc.

**Data Provider:** Engineering Village

## 50. Factors impacting consumers' sharing behavior under sharing economy: A UTAUT-based model

**Accession number:** 20190906545482

**Authors:** Liang, Xiaobei (1); Jin, Ying (1); Jiang, Jiang (1)

**Author affiliation:** (1) Tongji University, China

**Corresponding author:** Jin, Ying(jinying0404@126.com)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2018-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 18th International Conference on Electronic Business: AI and Smart Tourism, ICEB 2018

**Issue date:** 2018

**Publication year:** 2018

**Pages:** 317-324

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 18th International Conference on Electronic Business, ICEB 2018

**Conference date:** December 2, 2018 - December 6, 2018

**Conference location:** Guangxi, China

**Conference code:** 145276

**Publisher:** International Consortium for Electronic Business

**Abstract:** Sharing economy is emerging gradually in China, which is a field worth studying, especially the use behavior of participants in e-commerce background. Based on the UTAUT model, this research considers the characteristics of sharing economy and establishes the basic framework of influencing factors of sharing behaviors. It takes P2P sharing riding as an example to do some empirical analysis through Smart PLS and SPSS PROCESS. It explores the influencing factors of participation behavior, the mediation effect of sharing intention. The study finds that performance expectancy, effort expectancy, social influence have significant positive influence on the sharing intention. The facility condition, social entertainment motivation and sustainable motivation have significant positive influence on the sharing behavior through the mediation of sharing intention. © 2018 International Consortium for Electronic Business. All rights reserved.

**Number of references:** 31

**Main heading:** Consumer behavior

**Controlled terms:** Electronic commerce - Electronics industry - Leisure industry - Motivation - Tourism

**Uncontrolled terms:** eBusiness - Empirical analysis - Sharing behavior - Sharing economy - Social entertainments - Social influence - Utaut models

**Classification code:** 723.5 Computer Applications

Computer Applications

- 912.4 Personnel

Personnel

- 931.3 Atomic and Molecular Physics

Atomic and Molecular Physics

**Funding Details:**

**Funding text:** This work is supported by grant 17YJA630050 of the Humanities and Social Sciences of Ministry of Education Planning Fund.

**Compendex references:** YES

**Database:** Compendex

Compilation and indexing terms, Copyright 2021 Elsevier Inc.

**Data Provider:** Engineering Village

## 51. A heterogeneous systems public key encryption with equality test in smart city

**Accession number:** 20190906545455

**Authors:** Elhabob, Rashad (1); Sella, Iva (1); Zhao, Yanan (1); Zhu, Guobin (1); Xiong, Hu (1)

**Author affiliation:** (1) School of Information and Software Engineering, University of Electronic Science and Technology of China, Chengdu, China

**Corresponding author:** Xiong, Hu(xionghu.uestc@gmail.com)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2018-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 18th International Conference on Electronic Business: AI and Smart Tourism, ICEB 2018

**Issue date:** 2018

**Publication year:** 2018

**Pages:** 44-52

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 18th International Conference on Electronic Business, ICEB 2018

**Conference date:** December 2, 2018 - December 6, 2018

**Conference location:** Guangxi, China

**Conference code:** 145276

**Publisher:** International Consortium for Electronic Business

**Abstract:** Smart cities have been identified as areas which are urbanized and utilize diverse types of electronic data collection sensors that are used to oversee resources and assets efficiently. Smart meters are a unit of smart cities and they collect information about users and their consumption patterns. Consequently, the Internet of Things (IoT) being at a steady evolution has prompted multiple users into having their data collected from smart meters, stored on cloud servers. This is a way of saving costs and time involved in accessing the data. In spite of that, the cloud-assisted IoT faces privacy and security issues. This is as a result of the cloud servers possessing an untrusted nature. Due to this, it is essential for the data accumulated from the smart meters be encrypted hitherto outsourcing it to the cloud server. However, having encrypted data in the cloud server leads to a complication when it comes to accessing the data. For users who are on a different public key system, it becomes illogical for the users to first download the entire data on the cloud in order to access the required data. Therefore to resolve this issue, a heterogeneous systems public key encryption with equality test (HS-PKE-ET) scheme was proposed. The HS-PKE-ET scheme integrates certificateless public cryptography with equality test (CLC-ET) with the public key encryption with equality test (PKI-ET). This scheme allows an authorized cloud server to determine if two encryptions encrypted within heterogeneous systems possess equivalent messages. Basing on the random oracle model, the proposed scheme's security is stated under the bilinear Diffie-Hellman assumption together with the computational Diffie-Hellman assumption. Ultimately the size of storage, computation complexities and properties with other related works are focused on and illustrations indicate our proposed scheme reflects a good performance. © 2018 International Consortium for Electronic Business. All rights reserved.

**Number of references:** 20

**Main heading:** Internet of things

**Controlled terms:** Cloud computing - Clouds - Digital storage - Electronic commerce - Electronics industry - Leisure industry - Public key cryptography - Smart city - Smart meters - Testing - Tourism

**Uncontrolled terms:** Computation complexity - Diffie-Hellman assumption - Electronic data collection - Equality tests - Heterogeneous systems - Internet of thing (IOT) - Public-key encryption - Smart grid

**Classification code:** 443 Meteorology

Meteorology

- 722.1 Data Storage, Equipment and Techniques

Data Storage, Equipment and Techniques

- 722.4 Digital Computers and Systems

Digital Computers and Systems

- 723 Computer Software, Data Handling and Applications

Computer Software, Data Handling and Applications

- 723.5 Computer Applications

Computer Applications

- 942 Electric and Electronic Measuring Instruments

Electric and Electronic Measuring Instruments

**Funding Details:** Number: MMJJ20170204, Acronym: -, Sponsor: -; Number: 61472064,61602096,U1401257,

Acronym: NSFC, Sponsor: National Natural Science Foundation of China; Number: ZYGX2016J091, Acronym: -,

Sponsor: Fundamental Research Funds for the Central Universities;

**Funding text:** This work was supported in part by the 13th Five-Year Plan of National Cryptography Development Fund for Cryptographic Theory of China under Grant MMJJ20170204, in part by the Fundamental Research Funds for the Central Universities under Grant ZYGX2016J091, the Guangxi Colleges and Universities Key Laboratory of Cloud Computing and Complex Systems, and in part by the Natural Science Foundation of China under Grants U1401257, 61472064 and 61602096.

**Compendex references:** YES

**Database:** Compendex

Compilation and indexing terms, Copyright 2021 Elsevier Inc.

**Data Provider:** Engineering Village

## 52. Understanding consumer preferences-eliciting topics from online Q&A community

**Accession number:** 20190906545292

**Authors:** Liu, Guan (1); Wei, Ying (1); Li, Feng (2)

**Author affiliation:** (1) School of Management, Jinan University, China; (2) South China University of Technology, China

**Corresponding author:** Wei, Ying(yingwei@jnu.edu.cn)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2018-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 18th International Conference on Electronic Business: AI and Smart Tourism, ICEB 2018

**Issue date:** 2018

**Publication year:** 2018

**Pages:** 690-698

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 18th International Conference on Electronic Business, ICEB 2018

**Conference date:** December 2, 2018 - December 6, 2018

**Conference location:** Guangxi, China

**Conference code:** 145276

**Publisher:** International Consortium for Electronic Business

**Abstract:** Online Q&A community provides a platform to create and share knowledge by posting and answering questions. Soliciting information from Q&A thus offers an alternative approach for firms to understand their consumers. This paper proposes an innovative approach to extract consumer preferences based on the online Q&A information. We develop a framework to conduct the analysis and employ Latent Dirichlet Allocation (LDA) algorithm to distill and cluster topics. Based on Zhihu, the most popular online Q&A community in China, we collect almost 50000 answers under the discussion topics of "iPhone 7" and "iPhone X". We find that our approach can effectively extract and rank consumer preferences to the product. In addition, we find those preferences are inter-related. © 2018 International Consortium for Electronic Business. All rights reserved.

**Number of references:** 25

**Main heading:** Tourism

**Controlled terms:** Electronic commerce - Electronics industry - Leisure industry - Smartphones - Statistics

**Uncontrolled terms:** Consumer preferences - Innovative approaches - Latent dirichlet allocations - Share knowledge - Topic Modeling - Word co-occurrence

**Classification code:** 718.1 Telephone Systems and Equipment

Telephone Systems and Equipment

- 723.5 Computer Applications

Computer Applications

- 922.2 Mathematical Statistics

Mathematical Statistics

**Funding Details:** Number: 71572070, Acronym: NSFC, Sponsor: National Natural Science Foundation of China;

Number: 15JNQM003, Acronym: -, Sponsor: Fundamental Research Funds for the Central Universities;

**Funding text:** This work is partially supported by the Natural Science Foundation of China [Grant no. 71572070]; the Fundamental Research Funds for the Central Universities [Jinan University, Grant no. 15JNQM003].

**Compendex references:** YES

**Database:** Compendex

Compilation and indexing terms, Copyright 2021 Elsevier Inc.

**Data Provider:** Engineering Village

### 53. Strategic alignment and performance for service-oriented smart government in Taiwan: A comparison between government officials and private sector managers

**Accession number:** 20190906545281

**Authors:** Hung, Wei-Hsi (1); Lin, Chun-Yi (1)

**Author affiliation:** (1) Department of Management Information Systems, National Chengchi University, Taiwan

**Corresponding author:** Lin, Chun-Yi(106356501@nccu.edu.tw)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2018-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 18th International Conference on Electronic Business: AI and Smart Tourism, ICEB 2018

**Issue date:** 2018

**Publication year:** 2018

**Pages:** 586-595

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 18th International Conference on Electronic Business, ICEB 2018

**Conference date:** December 2, 2018 - December 6, 2018

**Conference location:** Guangxi, China

**Conference code:** 145276

**Publisher:** International Consortium for Electronic Business

**Abstract:** Transformation to service-oriented smart government is one of the most important issues for governments across the world, and has been promoted by academia and practitioners in the recent years. This study conducted quantitative research to evaluate the effect of the two different types of stakeholders - government officials and private sector managers - on the relationship between the strategic alignment and performance of service-oriented smart government in Taiwan. The findings of the study indicated that the government officials and the private sector managers focused on using different strategic alignments to enhance the government performance. These findings are able to serve as a guide to developing and transforming a government into a service-oriented smart government. © 2018 International Consortium for Electronic Business. All rights reserved.

**Number of references:** 40

**Main heading:** Service industry

**Controlled terms:** Electronic commerce - Electronics industry - Leisure industry - Managers - Tourism

**Uncontrolled terms:** Government IS - Government officials - Government performance - Private sectors - Quantitative research - Service Oriented - Strategic alignment

**Classification code:** 723.5 Computer Applications

Computer Applications

- 912.4 Personnel

Personnel

**Compendex references:** YES

**Database:** Compendex

Compilation and indexing terms, Copyright 2021 Elsevier Inc.

**Data Provider:** Engineering Village

### 54. Developmental problems of current cross border e-commerce companies and countermeasures

**Accession number:** 20201408377780

**Authors:** Tseng, TzuShan (1)

**Author affiliation:** (1) Ming Chuan University, Taiwan

**Corresponding author:** Tseng, TzuShan(shan23tw@yahoo.com.tw)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2019-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 19th International Conference on Electronic Business: Artificial Intelligence Empowered Business Processes, ICEB 2019

**Issue date:** 2019

**Publication year:** 2019

**Pages:** 567-569

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 19th International Conference on Electronic Business, ICEB 2019

**Conference date:** December 8, 2019 - December 12, 2019

**Conference location:** Newcastle upon Tyne, United kingdom

**Conference code:** 158514

**Sponsor:** Newcastle Business School; SME

**Publisher:** International Consortium for Electronic Business

**Abstract:** The development of cross border e-commerce industry is one of important global trends. From eMarketer (2019), the global sales of e-commerce in 2018 was 2.5 trillion US dollars and will reach 7.5 trillion US dollars in 2020. In this number - 7.5 trillion US dollars, the cross border e-commerce consumers will occupy 44.6% of e-commerce. Due to the quick development, companies will encounter problems by the way. The research purposes of this paper was to discuss some problems and provide suggestions. During the time of industry-academic cooperation, observational survey was used as the research methodology. The research subjects were 5 Taiwanese cross border e-commerce companies which located in the vehicles components industry and fashion handbag industry. The companies might have over a 30-years-old history or might be a new company. The common factor of these 5 companies are they all use cross border e-commerce multiple platforms to sell their products around the world. The research results and suggestions of these 5 cross border e-commerce companies are the following. Firstly, the problem is business opportunities are difficult to catch recently and the amount of each order earned is becoming smaller. The suggestion for this problem is to suggest adapting multiple cross border e-commerce portals operations on budgets and "Software Key activities" for decision making. The second problem is the cost of cross border e-commerce logistic is high. The suggestion for this problem is to use Big Data Analysis and artificial intelligence (AI) technology to calculate exact oversea inventories. The third problem is lack of trust. The suggestion for this problem is localization strategy, to systematically recruit and train the talents who are familiar with the culture, products and markets. And it should use the third-party money transfer security services. © 2019 International Consortium for Electronic Business. All rights reserved.

**Number of references:** 13

**Main heading:** Electronic commerce

**Controlled terms:** Artificial intelligence - Budget control - Decision making - Electronics industry

**Uncontrolled terms:** Artificial intelligence technologies - Business opportunities - Cross-border - Localization - Multiple platforms - Research methodologies - Research subjects - Security services

**Classification code:** 723.4 Artificial Intelligence

Artificial Intelligence

- 723.5 Computer Applications

Computer Applications

- 912.2 Management

Management

**Numerical data indexing:** Age 3.00e+01yr, Percentage 4.46e+01%

**Compendex references:** YES

**Database:** Compendex

Compilation and indexing terms, Copyright 2021 Elsevier Inc.

**Data Provider:** Engineering Village

## 55. Developing the ideal profile of OCAs and IT usage in the foodservice chain

**Accession number:** 20190906545475

**Authors:** Hung, Wei-Hsi (1); Wang, Tzu-Hao (2); Li, Jia-Wen (3); Wu, Mei-Fang (1)

**Author affiliation:** (1) Department of Management Information Systems, National Chengchi University, Taiwan; (2) Department of Industrial Engineering and Systems Management, Feng Chia University, Taiwan; (3) Department of Information Management, National Chung Cheng University, Taiwan

**Corresponding author:** Hung, Wei-Hsi(fhung@nccu.edu.tw)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2018-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 18th International Conference on Electronic Business: AI and Smart Tourism, ICEB 2018



**Issue date:** 2018

**Publication year:** 2018

**Pages:** 240-249

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 18th International Conference on Electronic Business, ICEB 2018

**Conference date:** December 2, 2018 - December 6, 2018

**Conference location:** Guangxi, China

**Conference code:** 145276

**Publisher:** International Consortium for Electronic Business

**Abstract:** In recent years, the number of the branches of the foodservice chain rapidly increases, and every branch wants to be successful. Thus, how to use information technology to support Organizational Critical Activities (OCAs) has become an important issue. This research found out ten Organizational Critical Activities (OCAs) of the foodservice chain and three types of information technology usage, Defender Type, Follower Type, and Innovator Type. Furthermore, after the revision of two experts, the ten Organizational Critical Activities (OCAs) are divided into three categories, Internal Management, External Management, and Product Service. The analytical result found out that Defender Type matches Internal Management, External Management matches Innovator Type, and Product Service matches Follower Type. Finally, this study hopes that companies in the foodservice chain can develop appropriate IT strategies according to this research result to enhance their core competitiveness. © 2018 International Consortium for Electronic Business. All rights reserved.

**Number of references:** 30

**Main heading:** Tourism

**Controlled terms:** Electronic commerce - Electronics industry - Leisure industry

**Uncontrolled terms:** Analytical results - Core competitiveness - Food services - Grounded theory - Information technology usages - Organizational critical activities - Research results - Three categories

**Classification code:** 723.5 Computer Applications

Computer Applications

**Compendex references:** YES

**Database:** Compendex

Compilation and indexing terms, Copyright 2021 Elsevier Inc.

**Data Provider:** Engineering Village

## 56. Bibliometric analysis of social commerce research

**Accession number:** 20190906545466

**Authors:** Li, Chengxi (1); Huang, Lijuan (2); Li, Linzi (2); Qi, Zhiqiang (2)

**Author affiliation:** (1) Shanghai University of Finance and Economics, China; (2) Xidian University, China

**Corresponding author:** Li, Chengxi(m13772002349@163.com)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2018-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 18th International Conference on Electronic Business: AI and Smart Tourism, ICEB 2018

**Issue date:** 2018

**Publication year:** 2018

**Pages:** 143-153

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 18th International Conference on Electronic Business, ICEB 2018

**Conference date:** December 2, 2018 - December 6, 2018

**Conference location:** Guangxi, China

**Conference code:** 145276

**Publisher:** International Consortium for Electronic Business

**Abstract:** Recently, social commerce has attracted the attention from both academics and practitioners and became a significant emerging research area. In this paper, bibliometric analysis has been applied to identify the characteristics and the developments of social commerce research. Based on the definition, we conduct a systematic review of social commerce research by synthesizing 1900 publications published between 2003 and 2018 in Web of Science. The 1900 publications cover 4033 authors, 724 journals, 79 countries or territories, and 1648 institutions.

Furthermore, 'Computers in Human Behavior' is the key journal publishing on social commerce research, and the USA, China and England are the countries that dominate the publication production. It can be concluded that there is much collaborative research in the social commerce domain as multi-authored publications make up the majority of all publications. In addition, three main research areas can be distinguished based on LLR (log-likelihood ratio): (1) the development trend of social commerce, (2) the relationship between customers and vendors, and (3) consumer trust in the context of social shopping. We believe that this review can provide some guidelines for future research. © 2018 International Consortium for Electronic Business. All rights reserved.

**Number of references:** 30

**Main heading:** Behavioral research

**Controlled terms:** Electronic commerce - Electronics industry - Leisure industry - Reviews - Tourism

**Uncontrolled terms:** Bibliometric analysis - Initial trusts - Reciprocal relationship - Social commerces - Systematic Review

**Classification code:** 723.5 Computer Applications

Computer Applications

- 903.2 Information Dissemination

Information Dissemination

- 971 Social Sciences

Social Sciences

**Funding Details:** Number: -, Acronym: -, Sponsor: Fundamental Research Funds for the Central Universities;

**Funding text:** This work was supported by Chinese Fundamental Research Funds for the Central Universities [No. JB1606096]; and Chinese Ministry of Education Humanities and Social Sciences project [No. 16YJC630038].

**Compendex references:** YES

**Database:** Compendex

Compilation and indexing terms, Copyright 2021 Elsevier Inc.

**Data Provider:** Engineering Village

## 57. Understanding baby boomers' intention to use online travel agencies

**Accession number:** 20190906545310

**Authors:** Chia, Allan (1)

**Author affiliation:** (1) Singapore University of Social Sciences, Singapore, Singapore

**Corresponding author:** Chia, Allan(allanchiab@uss.edu.sg)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2018-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 18th International Conference on Electronic Business: AI and Smart Tourism, ICEB 2018

**Issue date:** 2018

**Publication year:** 2018

**Pages:** 810-818

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 18th International Conference on Electronic Business, ICEB 2018

**Conference date:** December 2, 2018 - December 6, 2018

**Conference location:** Guangxi, China

**Conference code:** 145276

**Publisher:** International Consortium for Electronic Business

**Abstract:** There is an increasing trend where travellers are making most of their travel purchases through online channels. More and more travellers use online travel agencies for their travel purchases. While this is popular among the millennial generation, it would be interesting to study how the baby boomer generation has been influenced by this trend. This paper is a preliminary study based on Azjen's theory of planned behaviour. It provides a comprehensive review of the literature on the theory in relation to purchase behaviour involving online shopping. It examines how attitudes, subjective norms, and perceived behavioural control can be used to understand and explain behavioural intention, which can predict actual behaviour in the context of baby boomers using online travel agencies. This study provides some valuable insights and serves as the initial part of further research on identifying the possible factors affecting baby boomers in Singapore purchasing travel products and services via online travel agencies. © 2018 International Consortium for Electronic Business. All rights reserved.

**Number of references:** 88

**Main heading:** Tourism

**Controlled terms:** Electronic commerce - Electronics industry - Leisure industry - Sales  
**Uncontrolled terms:** Attitudes - Baby boomers - Behavioral intention - Perceived behavioral control - Subjective norm - Theory of planned behaviour - Travel agency  
**Classification code:** 723.5 Computer Applications  
Computer Applications  
**Compendex references:** YES  
**Database:** Compendex  
Compilation and indexing terms, Copyright 2021 Elsevier Inc.  
**Data Provider:** Engineering Village

## 58. A framework of cloud and AI based intelligent hotel

**Accession number:** 20190906545454  
**Authors:** Lai, Wen-Chi (1); Hung, Wei-Hsi (1)  
**Author affiliation:** (1) National Chengchi University, Taiwan  
**Corresponding author:** Lai, Wen-Chi(carly.lai@msa.hinet.net)  
**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)  
**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)  
**Volume:** 2018-December  
**Part number:** 1 of 1  
**Issue title:** Proceedings of the 18th International Conference on Electronic Business: AI and Smart Tourism, ICEB 2018  
**Issue date:** 2018  
**Publication year:** 2018  
**Pages:** 36-43  
**Language:** English  
**ISSN:** 16830040  
**Document type:** Conference article (CA)  
**Conference name:** 18th International Conference on Electronic Business, ICEB 2018  
**Conference date:** December 2, 2018 - December 6, 2018  
**Conference location:** Guangxi, China  
**Conference code:** 145276  
**Publisher:** International Consortium for Electronic Business  
**Abstract:** In the past 10 years, the hospitality industry's discussions on cloud technology have been ongoing to rise, but they had been stuck in the stage of paper talks, and there were no substantive action. In view of the huge potential of the intelligent hospitality industry market, and the related academic research literatures about the virtualized cloud architecture, AI technology application and intelligent virtual housekeeper system among in this industry is still relatively few. Therefore, I selected the industry success case led by Taiwan's Ministry of Science and Technology as a case study for this research, besides, quantified the system's trial operation phase, relevant operational performance results, as the focus of this intelligent hotel case implementation effectiveness evaluation. © 2018 International Consortium for Electronic Business. All rights reserved.  
**Number of references:** 30  
**Main heading:** Artificial intelligence  
**Controlled terms:** Cloud computing - Electronic commerce - Electronics industry - Hotels - Leisure industry - Tourism  
**Uncontrolled terms:** Academic research - AI Technologies - Cloud architectures - Cloud technologies - Effectiveness evaluation - Hospitality industry - Ministry of science and technologies - Operational performance  
**Classification code:** 402.2 Public Buildings  
Public Buildings  
- 722.4 Digital Computers and Systems  
Digital Computers and Systems  
- 723.4 Artificial Intelligence  
Artificial Intelligence  
- 723.5 Computer Applications  
Computer Applications  
**Numerical data indexing:** Age 1.00e+01yr  
**Compendex references:** YES  
**Database:** Compendex  
Compilation and indexing terms, Copyright 2021 Elsevier Inc.  
**Data Provider:** Engineering Village

## 59. Model-based reinforcement learning: A survey

**Accession number:** 20190906545493

**Authors:** Yi, Fengji (1); Fu, Wenlong (1); Liang, Huan (1)

**Author affiliation:** (1) Communication University of China, Beijing, China

**Corresponding author:** Fu, Wenlong(fwl2000@163.com)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2018-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 18th International Conference on Electronic Business: AI and Smart Tourism, ICEB 2018

**Issue date:** 2018

**Publication year:** 2018

**Pages:** 421-429

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 18th International Conference on Electronic Business, ICEB 2018

**Conference date:** December 2, 2018 - December 6, 2018

**Conference location:** Guangxi, China

**Conference code:** 145276

**Publisher:** International Consortium for Electronic Business

**Abstract:** Reinforcement learning is an important branch of machine learning and artificial intelligence. Compared with traditional reinforcement learning, model-based reinforcement learning obtains the action of the next state by the model that has been learned, and then optimizes the policy, which greatly improves data efficiency. Based on the present status of research on model-based reinforcement learning at home and abroad, this paper comprehensively reviews the key techniques of model-based reinforcement learning, summarizes the characteristics, advantages and defects of each technology, and analyzes the application of model-based reinforcement learning in games, robotics and brain science. © 2018 International Consortium for Electronic Business. All rights reserved.

**Number of references:** 90

**Main heading:** Reinforcement learning

**Controlled terms:** Dynamic models - Efficiency - Electronic commerce - Electronics industry - Learning systems - Leisure industry - Tourism

**Uncontrolled terms:** Brain science - Model-based reinforcement learning - Optimizing - Present status - Traditional reinforcements - Value function approximation

**Classification code:** 723.4 Artificial Intelligence

Artificial Intelligence

- 723.5 Computer Applications

Computer Applications

- 913.1 Production Engineering

Production Engineering

- 921 Mathematics

Mathematics

**Funding Details:** Number: -, Acronym: -, Sponsor: Beijing Municipal Science and Technology Commission;

**Funding text:** This work was supported by Beijing Municipal Commission of Science and Technology (Grant No. Z17110000117018), and Communication University of China (Grant Nos. CUC18A001, CUC18A003-3, 3132014XNG14543132015XNG1531, 3132017XNG1724).

**Compendex references:** YES

**Database:** Compendex

Compilation and indexing terms, Copyright 2021 Elsevier Inc.

**Data Provider:** Engineering Village

## 60. Critical success factors of alignment between websites and OCAs in the manufacturing industry

**Accession number:** 20190906545470

**Authors:** Lu, Tsung-Yueh (1); Hung, Wei-Hsi (2); Lin, Yun-Chen (3); Wu, Mei-Fang (1)

**Author affiliation:** (1) Department of Industrial Engineering and Systems Management, Feng Chia University, Taiwan; (2) Department of Management Information Systems, National Chengchi University, Taiwan; (3) Department of Information Management, National Chung Cheng University, Taiwan

**Corresponding author:** Hung, Wei-Hsi(fhung@nccu.edu.tw)  
**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)  
**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)  
**Volume:** 2018-December  
**Part number:** 1 of 1  
**Issue title:** Proceedings of the 18th International Conference on Electronic Business: AI and Smart Tourism, ICEB 2018  
**Issue date:** 2018  
**Publication year:** 2018  
**Pages:** 180-192  
**Language:** English  
**ISSN:** 16830040  
**Document type:** Conference article (CA)  
**Conference name:** 18th International Conference on Electronic Business, ICEB 2018  
**Conference date:** December 2, 2018 - December 6, 2018  
**Conference location:** Guangxi, China  
**Conference code:** 145276  
**Publisher:** International Consortium for Electronic Business  
**Abstract:** In this study, a list containing twelve organizational critical activities (OCAs) of manufacturing industry is found out by the interviews with executives and revision of two experts. The analysis on secondary data and the deeper interviews are carried out to obtain the critical success factors of the alignment between websites and OCAs in the manufacturing industry. Six common critical success factors of the three companies are: Support of Executives, Excellent and Professional Team, Full Communication, Harmonic Website Build Process, Technical Support, and Complete Information System Architecture. Finally, this study hopes that companies in the manufacturing industry can improve the competitiveness according to the result of this study. © 2018 International Consortium for Electronic Business. All rights reserved.  
**Number of references:** 30  
**Main heading:** Electronics industry  
**Controlled terms:** Alignment - Competition - Electronic commerce - Leisure industry - Manufacture - Silicon compounds - Tourism - Websites  
**Uncontrolled terms:** Complete information - Critical success factor - Manufacturing industries - Organizational critical activities - Professional team - Secondary datum - Technical support  
**Classification code:** 537.1 Heat Treatment Processes  
Heat Treatment Processes  
- 601.1 Mechanical Devices  
Mechanical Devices  
- 723.5 Computer Applications  
Computer Applications  
- 911.2 Industrial Economics  
Industrial Economics  
**Compendex references:** YES  
**Database:** Compendex  
Compilation and indexing terms, Copyright 2021 Elsevier Inc.  
**Data Provider:** Engineering Village

## 61. Exploring consumer value path of cross-border e-commerce: A perspective of means-end theory

**Accession number:** 20190906545479  
**Authors:** Xu, Xiaoyu (1); Chang, Fang-Kai (2); Li, Eldon Y. (3)  
**Author affiliation:** (1) Xi'an Jiaotong University, China; (2) Da-Yeh University, Taiwan; (3) National Chengchi University, Taiwan  
**Corresponding author:** Chang, Fang-Kai(fkchang@mail.dyu.edu.tw)  
**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)  
**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)  
**Volume:** 2018-December  
**Part number:** 1 of 1  
**Issue title:** Proceedings of the 18th International Conference on Electronic Business: AI and Smart Tourism, ICEB 2018  
**Issue date:** 2018

**Publication year:** 2018

**Pages:** 284-294

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 18th International Conference on Electronic Business, ICEB 2018

**Conference date:** December 2, 2018 - December 6, 2018

**Conference location:** Guangxi, China

**Conference code:** 145276

**Publisher:** International Consortium for Electronic Business

**Abstract:** Despite the explosive growth of CBEC, research into the phenomenon has not increased proportionally. Prior studies mainly discuss the opportunities, challenges and critical elements in CBEC on the organizational level. Little research has explored the individual consumer's psychological processes of joining and the benefits derived from purchasing on CBEC. Filling the research gap identified above, the objective of this study is to construct the hierarchical value map (HVM) of CBEC illustrating how consumers pursue their end through the decision making process consisting the linkage from perceived attributes to desired benefits and the eventual customer value when using CBEC. For this purpose, a qualitative rather than a quantitative approach ought to substantiate prior findings by uncovering the key defining components of CBEC context. The HVM presents 4 important benefits obtaining paths marked as boldfaced, referred as economic oriented path, efficacy oriented obtaining path, choice optimization path, and shipping progress oriented path. © 2018 International Consortium for Electronic Business. All rights reserved.

**Number of references:** 31

**Main heading:** Tourism

**Controlled terms:** Decision making - Electronic commerce - Electronics industry - Leisure industry

**Uncontrolled terms:** Critical elements - Cross-border - Decision making process - Hierarchical value path - Means-end chains - Organizational levels - Psychological process - Quantitative approach

**Classification code:** 723.5 Computer Applications

Computer Applications

- 912.2 Management

Management

**Funding Details:** Number: 2016M602838, Acronym: -, Sponsor: -;

**Funding text:** This work is partially supported by grant ORD-106052 of the Personal Project Fund from the Da-Yeh University, Taiwan. This work is partially supported by grant 2016M602838 of the Post-doctoral foundation from Ministry of Education, PRC

**Compendex references:** YES

**Database:** Compendex

Compilation and indexing terms, Copyright 2021 Elsevier Inc.

**Data Provider:** Engineering Village

## 62. Applying AHP to comprehend the factors influencing consumer attention to sponsored ads by YouTubers

**Accession number:** 20190906545299

**Authors:** Chang, Jui-Yen (1)

**Author affiliation:** (1) National Chengchi University, Taiwan

**Corresponding author:** Chang, Jui-Yen(ketrel0225@gmail.com)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2018-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 18th International Conference on Electronic Business: AI and Smart Tourism, ICEB 2018

**Issue date:** 2018

**Publication year:** 2018

**Pages:** 747-753

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 18th International Conference on Electronic Business, ICEB 2018

**Conference date:** December 2, 2018 - December 6, 2018

**Conference location:** Guangxi, China

**Conference code:** 145276

**Publisher:** International Consortium for Electronic Business

**Abstract:** Several YouTubers have become an important channel for ad spending, as an influential part of the internet celebrity economy. Thus, this paper has presented a two-stage integrated hierarchical structure of evaluation for analyzing the evaluation factors of user attention to a sponsored ad by a YouTuber. That is, we use the AHP method to analyze the key factors that influence the success of sponsored ads by YouTubers in attracting users. Specifically, "C1.3 Attractive Contents", "C6.4 Curious", and "C4.2 Personality" were the three highest key factors in the priority of evaluation factors of consumers' attention to a sponsored ad by a YouTuber. © 2018 International Consortium for Electronic Business. All rights reserved.

**Number of references:** 10

**Main heading:** Tourism

**Controlled terms:** Analytic hierarchy process - Electronic commerce - Electronics industry - Hierarchical systems - Leisure industry

**Uncontrolled terms:** AHP method - Evaluation factor - Hierarchical structures - Social media - Sponsored ads - User attention - YouTube

**Classification code:** 723.5 Computer Applications

Computer Applications

- 961 Systems Science

Systems Science

**Compendex references:** YES

**Database:** Compendex

Compilation and indexing terms, Copyright 2021 Elsevier Inc.

**Data Provider:** Engineering Village

### 63. A cryptocurrency based insurance model

**Accession number:** 20190906545452

**Authors:** Yu, Julian (1); Yen, Benjamin (2)

**Author affiliation:** (1) Taiping Reinsurance Brokers Ltd., Hong Kong; (2) University of Hong Kong, China

**Corresponding author:** Yu, Julian(jfcyu@yahoo.com.sg)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2018-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 18th International Conference on Electronic Business: AI and Smart Tourism, ICEB 2018

**Issue date:** 2018

**Publication year:** 2018

**Pages:** 9-27

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 18th International Conference on Electronic Business, ICEB 2018

**Conference date:** December 2, 2018 - December 6, 2018

**Conference location:** Guangxi, China

**Conference code:** 145276

**Publisher:** International Consortium for Electronic Business

**Abstract:** Modern insurance has been operating in the same business model since its inception while its recent IT improvement is mainly for specific functions without overall structural review. This paper is to incorporate the concept of a cryptocurrency, called Risk Coin, as the foundation of a new model to enhance the risk financing efficiency with capital market. Risk Coin is 1) a shareholding token of the premium fund with benefits from law-of-large-numbers, and 2) a cryptocurrency with benefits from seigniorage as fiat currency anchored at value of coin fund formed by collected premium and refund from loss payments. Applications in current insurance environment of pipeline model as well as in an innovative environment of platform model are simulated. Both results show a self-balancing mechanism that higher coin value from less coin preference, therefore, encouraging coin receivers to keep coins. Overall the new model will enhance the effectiveness of risk funding by keeping risk coins and also turn insurance deal to a win-win situation from zero-sum game through premium payment as gaining ownership of risk fund. © 2018 International Consortium for Electronic Business. All rights reserved.

**Number of references:** 30

**Main heading:** Cryptocurrency

**Controlled terms:** Electronics industry - Insurance - Leisure industry - Tourism

**Uncontrolled terms:** Business modeling - Innovative environments - Insuretech - Law of large numbers - Pipeline modeling - Platform models - Self-balancing - Shareholdings

**Classification code:** 723.5 Computer Applications

Computer Applications

**Funding text:** An insurable risk is a potential financial loss covered by Insurance Contract to pay for the loss when it occurs. Their valuations are in dollar amount, namely premium and Liability/Loss, and therefore can be reviewed in Capital Circle: Risk is from activities of Enterprises and requires protection of Insurance. Insurance protects Risks and returns profits to Capital for solvency support. Capital supports solvency of Insurance and fund Enterprises as investment. Enterprise is funded by Capital and upholding Risks from its operations.

**Compendex references:** YES

**Database:** Compendex

Compilation and indexing terms, Copyright 2021 Elsevier Inc.

**Data Provider:** Engineering Village

## 64. Big data values deliverance: OSS model

**Accession number:** 20190906545467

**Authors:** Hamilton, John R. (1); Tee, SingWhat (1)

**Author affiliation:** (1) James Cook University, Australia

**Corresponding author:** Hamilton, John R.(John.Hamilton@jcu.edu.au)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2018-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 18th International Conference on Electronic Business: AI and Smart Tourism, ICEB 2018

**Issue date:** 2018

**Publication year:** 2018

**Pages:** 154-162

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 18th International Conference on Electronic Business, ICEB 2018

**Conference date:** December 2, 2018 - December 6, 2018

**Conference location:** Guangxi, China

**Conference code:** 145276

**Publisher:** International Consortium for Electronic Business

**Abstract:** Open source software (OSS) repositories, like GitHub, conjointly build numerous big data projects. GitHub developers and/or its responders extend/enhance a project's software capabilities. Over time, GitHub's repositories are mined for new knowledge and capabilities. This study's values-deliverance staging system data mines, isolates, collates and incorporates relevant GitHub text into values deliverance model constructs. This suggests differential construct effects influence a project's activities levels. The study suggests OSS big data platforms can be software data mined to isolate and assess the values embedded. This also elucidates pathways where behavioral values deliverance improvements to GitHub can likely be most beneficial. © 2018 International Consortium for Electronic Business. All rights reserved.

**Number of references:** 50

**Main heading:** Open source software

**Controlled terms:** Big data - Electronic commerce - Electronics industry - Leisure industry - Open systems - Tourism

**Uncontrolled terms:** GitHub - Map-reduce - Open sources - Text data - Value - Values deliverance

**Classification code:** 723 Computer Software, Data Handling and Applications

Computer Software, Data Handling and Applications

**Compendex references:** YES

**Database:** Compendex

Compilation and indexing terms, Copyright 2021 Elsevier Inc.

**Data Provider:** Engineering Village

## 65. Exploring the influential factors of consumers' willingness to purchase fresh agricultural products online: A meta-analysis

**Accession number:** 20190906545481



**Authors:** Liu, Lu (1); Li, Liangqiang (1); Liao, Miyan (1); Cao, Yunzhong (1)  
**Author affiliation:** (1) Sichuan Agricultural University, China  
**Corresponding author:** Li, Liangqiang(lilq@sicau.edu.cn)  
**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)  
**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)  
**Volume:** 2018-December  
**Part number:** 1 of 1  
**Issue title:** Proceedings of the 18th International Conference on Electronic Business: AI and Smart Tourism, ICEB 2018  
**Issue date:** 2018  
**Publication year:** 2018  
**Pages:** 304-316  
**Language:** English  
**ISSN:** 16830040  
**Document type:** Conference article (CA)  
**Conference name:** 18th International Conference on Electronic Business, ICEB 2018  
**Conference date:** December 2, 2018 - December 6, 2018  
**Conference location:** Guangxi, China  
**Conference code:** 145276  
**Publisher:** International Consortium for Electronic Business  
**Abstract:** What are the key influential factors of consumers' willingness to purchase fresh agricultural products online? A large number of existing studies indicate that even the same factor has significant inconsistency or even opposite conclusion. Based on this contradiction, this study uses meta-analysis and uniform effect values to analyze the existing researches, and find a more unified conclusion. The results show the degree of self-health concern, the quality, safety and price, online shopping evaluation, the consumers' perceived usefulness, perceived ease of use, and perceived risk in online shopping for fresh agricultural products all have a significant impact on consumers' online shopping willingness. © 2018 International Consortium for Electronic Business. All rights reserved.  
**Number of references:** 28  
**Main heading:** Quality control  
**Controlled terms:** Agricultural products - Agricultural robots - Electronic commerce - Electronics industry - Health risks - Leisure industry - Tourism  
**Uncontrolled terms:** Fresh agricultural products - Health concerns - Influential factors - Meta analysis - Online shopping - Perceived ease of use - Perceived risk - Perceived usefulness  
**Classification code:** 461.7 Health Care  
Health Care  
- 723.5 Computer Applications  
Computer Applications  
- 821.4 Agricultural Products  
Agricultural Products  
- 913.3 Quality Assurance and Control  
Quality Assurance and Control  
**Funding Details:** Number: 2016ZR0048, Acronym: -, Sponsor: -; Number: -, Acronym: SPDST, Sponsor: Department of Science and Technology of Sichuan Province;  
**Funding text:** This work is partially supported by grant Qian Jiao he KY [2017] 034 of Major Research Project of Innovative Group from Guizhou Provincial Education Department and 2016ZR0048 of Soft Science Project from Science & Technology Department of Sichuan Province.  
**Compendex references:** YES  
**Database:** Compendex  
Compilation and indexing terms, Copyright 2021 Elsevier Inc.  
**Data Provider:** Engineering Village

## 66. A modified KNN algorithm for activity recognition in smart home

**Accession number:** 20190906545456  
**Authors:** Wang, Zhi (1); Gao, Jian (1); Chen, Rong (1); Wang, Jinyan (2)  
**Author affiliation:** (1) Dalian Maritime University, China; (2) Guangxi Normal University, China  
**Corresponding author:** Gao, Jian(gaojian@dlnu.edu.cn)  
**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)  
**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)  
**Volume:** 2018-December  
**Part number:** 1 of 1

**Issue title:** Proceedings of the 18th International Conference on Electronic Business: AI and Smart Tourism, ICEB 2018

**Issue date:** 2018

**Publication year:** 2018

**Pages:** 53-61

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 18th International Conference on Electronic Business, ICEB 2018

**Conference date:** December 2, 2018 - December 6, 2018

**Conference location:** Guangxi, China

**Conference code:** 145276

**Publisher:** International Consortium for Electronic Business

**Abstract:** Nowadays, more and more elderly people cannot take care of themselves, and feel uncomfortable in daily activities. Smart home systems can help to improve daily life of elderly people. A smart home can bring residents a more comfortable living environment by recognizing the daily activities automatically. In this paper, in order to improve the accuracy of activity recognition in smart homes, we conduct some improvements in data preprocess and recognition phase, and more importantly, a novel sensor segmentation method and a modified KNN algorithm are proposed. The segmentation algorithm employs segment sensor data into fragments based on predefined activity knowledge, and then the proposed modified KNN algorithm uses center distances as a measure for classification. We also conduct comprehensive experiments, and the results demonstrate that the proposed method outperforms the other classifiers. © 2018 International Consortium for Electronic Business. All rights reserved.

**Number of references:** 19

**Main heading:** Learning algorithms

**Controlled terms:** Automation - Electronic commerce - Intelligent buildings - Leisure industry - Pattern recognition - Tourism

**Uncontrolled terms:** Activity recognition - Center distance - Data preprocess - k-NN algorithm - Living environment - Segmentation algorithms - Segmentation methods - Smart-home system

**Classification code:** 723.5 Computer Applications

Computer Applications

- 731 Automatic Control Principles and Applications

Automatic Control Principles and Applications

**Funding Details:** Number: 20170005, Acronym: -, Sponsor: -; Number: 3132016348, Acronym: -, Sponsor: Fundamental Research Funds for the Central Universities; Number: 2016GXNSFAA380192, Acronym: -, Sponsor: Natural Science Foundation of Guangxi Province; Number: 20170540097, Acronym: -, Sponsor: Natural Science Foundation of Liaoning Province; Number: 61502111, Acronym: NSFC, Sponsor: National Natural Science Foundation of China;

**Funding text:** This work is supported by the National Natural Science Foundation of China (No. 61672122, No. 61602077, No. 61763003, No. 61502111), the Public Welfare Funds for Scientific Research of Liaoning Province of China (No. 20170005), the Natural Science Foundation of Liaoning Province of China (No. 20170540097), the Natural Science Foundation of Guangxi Province of China (No. 2016GXNSFAA380192), and the Fundamental Research Funds for the Central Universities (No. 3132016348, No. 3132018194).

**Compendex references:** YES

**Database:** Compendex

Compilation and indexing terms, Copyright 2021 Elsevier Inc.

**Data Provider:** Engineering Village

## 67. The emerging of smart citizen concept under smart city environment

**Accession number:** 20190906545297

**Authors:** Tian, Jing (1); Li, Honglei (2); Chen, Rong (1)

**Author affiliation:** (1) Tsinghua University, Beijing, China; (2) Northumbria University, United Kingdom

**Corresponding author:** Tian, Jing(tianj.13@sem.tsinghua.edu.cn)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2018-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 18th International Conference on Electronic Business: AI and Smart Tourism, ICEB 2018

**Issue date:** 2018

**Publication year:** 2018

**Pages:** 739-742

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 18th International Conference on Electronic Business, ICEB 2018

**Conference date:** December 2, 2018 - December 6, 2018

**Conference location:** Guangxi, China

**Conference code:** 145276

**Publisher:** International Consortium for Electronic Business

**Abstract:** This study proposed a new concept Smart Citizen under smart city environment that has not been noticed before. Smart city has introduced opportunities for improved citizen wellbeing through digitalization of many activities of our life. The information acquisition, shopping, life style tracking, and social life are all shifting from offline to online, which also creates many burdens in our life. Yet we know little about how the life process is being changed by this wave of new technology innovation. Most smart city research focused either on the technology infrastructure or the policy but neglect the most important element of the smart city is the person who lives in the city. A clear definition and examination of the role of citizens under the smart city environment would help us better cope with the technology. This study proposed a new concept smart citizen with four dimensions, followed by several relevant research questions of each dimension respectively. The four dimensions are (1) slacktivism and knowledge bubble, (2) personal digitalization, (3) virtual social relationship, and (4) digital life process burden. We expect to arouse discussions on how an individual under smart city environment shall respond to these four challenging perspectives. © 2018 International Consortium for Electronic Business. All rights reserved.

**Number of references:** 30

**Main heading:** Smart city

**Controlled terms:** Electronic commerce - Electronics industry - Leisure industry - Tourism

**Uncontrolled terms:** Consumer participation - Knowledge bubble - Personal digitalization - Smart citizen - Virtual community

**Classification code:** 723.5 Computer Applications

Computer Applications

**Funding Details:** Number: 20151080390, Acronym: -, Sponsor: -; Number: 71472104,71472104,71772104,71772104, Acronym: NSFC, Sponsor: National Natural Science Foundation of China;

**Funding text:** This work was supported by the National Natural Science Foundation of China [grant numbers 71472104,71772104]; Tsinghua University Initiative Scientific Research Program (20151080390).

**Compendex references:** YES

**Database:** Compendex

Compilation and indexing terms, Copyright 2021 Elsevier Inc.

**Data Provider:** Engineering Village

## 68. Examining consumer mobile money usage behaviour in Ghana

**Accession number:** 20190906545301

**Authors:** Glavee-Geo, Richard (1); Shaikh, Aijaz A. (2); Hinson, Robert Ebo (3); Karjaluoto, Heikki (2)

**Author affiliation:** (1) Norwegian University of Science and Technology, Aalesund, Norway; (2) University of Jyväskylä, Finland; (3) University of Ghana Business School, Accra, Ghana

**Corresponding author:** Shaikh, Aijaz A.(aijaz.a.shaikh@jyu.fi)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2018-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 18th International Conference on Electronic Business: AI and Smart Tourism, ICEB 2018

**Issue date:** 2018

**Publication year:** 2018

**Pages:** 761-765

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 18th International Conference on Electronic Business, ICEB 2018

**Conference date:** December 2, 2018 - December 6, 2018

**Conference location:** Guangxi, China

**Conference code:** 145276

**Publisher:** International Consortium for Electronic Business

**Abstract:** This study develops a theoretical model to examine the effects of agent credibility and service quality on customer empowerment and the consequences of such empowerment in mobile money (MM) usage in Ghana. In total, 595 valid responses were collected using a pre-tested onsite-survey instrument. The research findings suggest that a higher level of MM agent credibility increases customer empowerment, which in turn positively affects the continuous usage of MM services. A significant association between MM agent service quality and customer empowerment was also noted. The study concludes with a discussion of study implications, limitations, and future research directions. © 2018 International Consortium for Electronic Business. All rights reserved.

**Number of references:** 8

**Main heading:** Electronic money

**Controlled terms:** Electronics industry - Leisure industry - Quality of service - Sales - Tourism

**Uncontrolled terms:** Customer empowerment - Future research directions - Ghana - Mobile money - On-site survey - Service Quality - Theoretical modeling

**Classification code:** 723.5 Computer Applications

Computer Applications

**Compendex references:** YES

**Database:** Compendex

Compilation and indexing terms, Copyright 2021 Elsevier Inc.

**Data Provider:** Engineering Village

## 69. Strengths of Chinese rural areas to develop e-commerce projects

**Accession number:** 20190906545282

**Authors:** Guo, Hong (1); Li, Ying (2); Gao, Shang (3)

**Author affiliation:** (1) Anhui University, China; (2) Zhongnan University of Economics and Law, China; (3) Örebro University, Sweden

**Corresponding author:** Guo, Hong(homekuo@gmail.com)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2018-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 18th International Conference on Electronic Business: AI and Smart Tourism, ICEB 2018

**Issue date:** 2018

**Publication year:** 2018

**Pages:** 596-603

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 18th International Conference on Electronic Business, ICEB 2018

**Conference date:** December 2, 2018 - December 6, 2018

**Conference location:** Guangxi, China

**Conference code:** 145276

**Publisher:** International Consortium for Electronic Business

**Abstract:** It is important to use appropriate ways to develop e-commerce in rural areas. Despite numerous studies which have addressed barriers that rural areas in developing countries are facing, few studies can be found that were focused on strengths that rural areas could consider about when developing e-commerce. In this paper, we analyzed typical cases (as known as patterns) in Chinese rural areas where e-commerce have been developed in a quick, innovative and successful way. We analyzed these cases and proposed four strengths (i.e., Industry Strength, Resource Strength, Position Strength and Marketing Strength) that rural areas could use when developing e-commerce. Started from the strength, a framework named SASS (Strength, Aim, Subjects, and Solutions) which characterizes key elements to develop e-commerce in rural areas was identified. According to a review on ten such cases, we found that the four strengths and the SASS framework could help us understand such cases in a unified and organized way. Accordingly, reference can be obtained in a more efficient way for top-level design of e-commerce development in similar areas. © 2018 International Consortium for Electronic Business. All rights reserved.

**Number of references:** 21

**Main heading:** Rural areas

**Controlled terms:** Developing countries - Electronic commerce - Electronics industry - Leisure industry - Tourism

**Uncontrolled terms:** E-commerce development - Key elements - Strength - Top-level designs

**Classification code:** 723.5 Computer Applications

Computer Applications

**Funding Details:** Number: 18YJC630082, Acronym: -, Sponsor: -;

**Funding text:** This research is supported by Science Foundation of Ministry of Education of China (No.18YJC630082).

**Compendex references:** YES

**Database:** Compendex

Compilation and indexing terms, Copyright 2021 Elsevier Inc.

**Data Provider:** Engineering Village

## 70. Kansei-engineering-based method for improvement of cross-border e-commerce service: From the perspective of customers' emotional perceptions

**Accession number:** 20190906545304

**Authors:** Li, Yang (1); Qin, Chunxiu (1); Mou, Jian (1); Lv, Xiaojuan (1)

**Author affiliation:** (1) Xidian University, China

**Corresponding author:** Li, Yang(384976823@qq.com)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2018-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 18th International Conference on Electronic Business: AI and Smart Tourism, ICEB 2018

**Issue date:** 2018

**Publication year:** 2018

**Pages:** 778-784

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 18th International Conference on Electronic Business, ICEB 2018

**Conference date:** December 2, 2018 - December 6, 2018

**Conference location:** Guangxi, China

**Conference code:** 145276

**Publisher:** International Consortium for Electronic Business

**Abstract:** With the rapid development of the Internet, cross-border e-commerce has become an important channel for promoting international trade. Simultaneously, more and more customers express their views and comments on cross-border e-commerce services on the Internet. To understand and satisfy customers' requirements, it is required to find out helpful information from consumer feedback and make an improvement as soon as possible. The relevant firms will provide a more friendly and satisfactory service for customers by this way. Cross-border e-commerce will also achieve a better development. Therefore, this study proposes a method which combines text mining and Kansei engineering to analyze cross-border e-commerce service. Kansei engineering (KE) is a kind of approach to design the elements which transforms customers' affective and emotional perceptions into products and services. Therefore, this study applies a KE-based approach to analyze the associations between service elements (property space) of cross-border e-commerce and customers' emotional perceptions (semantic space), and provides a new idea for further improvement of cross-border e-commerce service. © 2018 International Consortium for Electronic Business. All rights reserved.

**Number of references:** 23

**Main heading:** Electronic commerce

**Controlled terms:** Behavioral research - Customer satisfaction - Electronics industry - International trade - Leisure industry - Product design - Sales - Semantics - Service industry - Telecommunication services - Text mining - Tourism

**Uncontrolled terms:** Cross-border - E-commerce services - Kansei Engineering - Products and services - Property spaces - Semantic Space - Service elements

**Classification code:** 723.5 Computer Applications

Computer Applications

- 913.1 Production Engineering

Production Engineering

- 971 Social Sciences

Social Sciences

**Funding Details:** Number: 71573199, Acronym: NSFC, Sponsor: National Natural Science Foundation of China;

Number: 20103176477, Acronym: -, Sponsor: Fundamental Research Funds for the Central Universities;

**Funding text:** This research was supported by the National Natural Science Foundation of China under Grant 71573199, as well as the Fundamental Research Funds for the Central Universities of No.JBX180604, 20103176477.

**Compendex references:** YES

**Database:** Compendex

Compilation and indexing terms, Copyright 2021 Elsevier Inc.

**Data Provider:** Engineering Village

## 71. A four stage approach towards speeding GitHub OSS development

**Accession number:** 20190906545453

**Authors:** Hamilton, John R. (1); Holdsworth, Jason (1); Tee, SingWhat (1); Alshomali, Mohammad Azeez (1)

**Author affiliation:** (1) James Cook University, Australia

**Corresponding author:** Hamilton, John R.(John.Hamilton@jcu.edu.au)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2018-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 18th International Conference on Electronic Business: AI and Smart Tourism, ICEB 2018

**Issue date:** 2018

**Publication year:** 2018

**Pages:** 28-35

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 18th International Conference on Electronic Business, ICEB 2018

**Conference date:** December 2, 2018 - December 6, 2018

**Conference location:** Guangxi, China

**Conference code:** 145276

**Publisher:** International Consortium for Electronic Business

**Abstract:** Many open source software (OSS) project creators adopt GitHub as their chosen online repository. They seek out others within the global OSS community of developers. Such community developers are then encouraged to add their capabilities, ideas and coding into a creator's developing OSS project. A structural equation modelling study of three top OSS programming languages deploys GitHub's operational elements as a four stage directional suite of (1) dependent, (2) intermediaries, and (3) independent elements. It shows a project's activity levels can be enhanced when additional project contributions are effectively stage-wise pursued. A staged development approach helps creators understand the process of attracting OSS developers into a creator's GitHub project. © 2018 International Consortium for Electronic Business. All rights reserved.

**Number of references:** 20

**Main heading:** Open source software

**Controlled terms:** Big data - Electronic commerce - Electronics industry - Leisure industry - Modeling languages - Open systems - Tourism

**Uncontrolled terms:** Activity levels - Developer repo - Development approach - GitHub - Online repositories - Open source software projects - Structural equation modelling

**Classification code:** 723 Computer Software, Data Handling and Applications

Computer Software, Data Handling and Applications

**Compendex references:** YES

**Database:** Compendex

Compilation and indexing terms, Copyright 2021 Elsevier Inc.

**Data Provider:** Engineering Village

## 72. Exploring mobile social networking sites continuance intention from the perspective of network externalities and mobile value

**Accession number:** 20190906545480

**Authors:** Ampong, George Oppong Appiagyei (1); Mensah, Aseda (2); Boakye, Kwabena G. (3); Simpson, Grace (1); Ofori, Kwame Simpe (1); Addae, John Agyekum (1)

**Author affiliation:** (1) Ghana Technology University College, Ghana; (2) University of Ghana Business School, Ghana; (3) Georgia Southern University, United States

**Corresponding author:** Ofori, Kwame Simpe(kwamesimpe@gmail.com)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2018-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 18th International Conference on Electronic Business: AI and Smart Tourism, ICEB 2018

**Issue date:** 2018

**Publication year:** 2018

**Pages:** 295-303

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 18th International Conference on Electronic Business, ICEB 2018

**Conference date:** December 2, 2018 - December 6, 2018

**Conference location:** Guangxi, China

**Conference code:** 145276

**Publisher:** International Consortium for Electronic Business

**Abstract:** Key shifts in the nature and characteristics of technology have led to evolutions in social media usage. For the first time in history, the internet is being accessed from more mobile devices than desktop computers. This revolution is especially felt among social networking sites, many of whom have presciently developed and released mobile applications of their platforms. Drawing from the Perceived Value Theory, Network Externalities and the Expectation Confirmation Theory of IS Continuance, we tested a model that sought to explain the effect of Network Externalities on Perceived Value and in turn Continuance Intention. Data was collected from 452 students from a university in Ghana and analyzed using the Partial Least Square approach to Structural Equation Modeling. Results from the current study showed that Referent Network Size and Perceived Complementarity had significant effects on both Utilitarian and Hedonic Value as well as Satisfaction. Hedonic Value, Utilitarian Value and Satisfaction in turn were found to be significant predictors of Continuance Intention. In all, the model accounted for 58.0% of the variance in continuance intention. The implications and limitations of the current study are discussed, and directions for future research proposed. © 2018 International Consortium for Electronic Business. All rights reserved.

**Number of references:** 30

**Main heading:** Social networking (online)

**Controlled terms:** Electronic commerce - Electronics industry - Leisure industry - Personal computers - Tourism

**Uncontrolled terms:** Continuance intentions - Hedonic values - Network externality - Social networking sites - Utilitarian value

**Classification code:** 722.4 Digital Computers and Systems

Digital Computers and Systems

- 723 Computer Software, Data Handling and Applications

Computer Software, Data Handling and Applications

- 723.5 Computer Applications

Computer Applications

**Numerical data indexing:** Percentage 5.80e+01%

**Compendex references:** YES

**Database:** Compendex

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**Data Provider:** Engineering Village

### **73. Empirical study about the motivations for using multifunctional social media: Based upon the uses and gratifications theory**

**Accession number:** 20190906545477

**Authors:** Wang, Shui (1); Luo, Chuan (1); Jiang, Peishan (1)

**Author affiliation:** (1) Southwestern University of Finance and Economics, China

**Corresponding author:** Wang, Shui(waterkemodo@163.com)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2018-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 18th International Conference on Electronic Business: AI and Smart Tourism, ICEB 2018

**Issue date:** 2018

**Publication year:** 2018

**Pages:** 265-274

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 18th International Conference on Electronic Business, ICEB 2018

**Conference date:** December 2, 2018 - December 6, 2018

**Conference location:** Guangxi, China

**Conference code:** 145276

**Publisher:** International Consortium for Electronic Business

**Abstract:** Social media is a kind of online platform which used by people to share contents and contact each other via virtual communities and networks. With the development of information technology, it becomes neoteric and multifunctional. In order to examine what factors affecting individuals' usage intentions for the various functions of social media, we proposed a model based on the uses and gratifications theory, this theory indicates there are three types of motivations, named as social motivation, utilitarian motivation and hedonic motivation, then six factors derived from the three motivations are presented. We collected 404 samples from the QQ users from 77 cities in China, with statistical analysis, the result shows that four of them can significantly affect individuals' usage intentions of QQ' various functions beyond as an instant messenger. This study extends current understanding about the usage motivations of social media and it can be a reference for future research in this field. © 2018 International Consortium for Electronic Business. All rights reserved.

**Number of references:** 30

**Main heading:** Motivation

**Controlled terms:** Electronic commerce - Electronics industry - Leisure industry - Social networking (online) - Tourism

**Uncontrolled terms:** Empirical studies - Hedonic motivations - Instant messengers - Social media - Social motivations - User adoptions - Uses and gratifications theories - Utilitarian motivations

**Classification code:** 723 Computer Software, Data Handling and Applications

Computer Software, Data Handling and Applications

- 723.5 Computer Applications

Computer Applications

- 912.4 Personnel

Personnel

**Funding Details:** Number: JBK120505, Acronym: -, Sponsor: Fundamental Research Funds for the Central Universities;

**Funding text:** This work is supported by the Fundamental Research Funds for the Central Universities (Grant No. JBK1802012, JBK120505), the Fund from Collaborative Innovation Center for the Innovation and Regulation of Internet-based-Finance (Grant No. JBK150407), and Fund from Laboratory for Financial Intelligence and Financial Engineering, Southwestern University of Finance and Economics.

**Compendex references:** YES

**Database:** Compendex

Compilation and indexing terms, Copyright 2021 Elsevier Inc.

**Data Provider:** Engineering Village

## 74. Perceived speaking up as a stressor for coworkers in a social network context: A dual process examination

**Accession number:** 20190906545311

**Authors:** Ling, Bin (1); Lu, Siyu (1)

**Author affiliation:** (1) Hohai University, China

**Corresponding author:** Ling, Bin(lingbin@hhu.edu.cn)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2018-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 18th International Conference on Electronic Business: AI and Smart Tourism, ICEB 2018

**Issue date:** 2018

**Publication year:** 2018

**Pages:** 828-830

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 18th International Conference on Electronic Business, ICEB 2018

**Conference date:** December 2, 2018 - December 6, 2018



**Conference location:** Guangxi, China

**Conference code:** 145276

**Publisher:** International Consortium for Electronic Business

**Abstract:** This research proposal will explore the coworker-related outcomes of perceived employee speaking up which can be viewed as a stressor for coworkers in workplace. Within a team, voice behavior can make changes for the status quo and even upset others (LePine & Van Dyne, 1998). We want to examine how voicing may influence coworkers' job attitude and behavior in a social network context. Specifically, this study introduces the dual process model of coping theory to employee voice behavior literature to construct longitudinal mediational mechanism underlying the relationship between perceived speaking up toward supervisor and coworker outcomes like job performance and satisfaction. Integrating with social exchange theory, this study adds coworker exchange as a moderator for the mediating effects. This quality of coworker exchange may influence coworkers to adopt different coping strategies (problem solving focused coping vs. emotion focused coping) to respond perceived speaking up toward supervisor. © 2018 International Consortium for Electronic Business. All rights reserved.

**Number of references:** 9

**Main heading:** Behavioral research

**Controlled terms:** Electronic commerce - Electronics industry - Leisure industry - Stresses - Supervisory personnel - Tourism

**Uncontrolled terms:** Coping strategies - Employee voices - Job performance - Mediating effect - Perceived speaking up - Research proposals - Social exchange theory - Social network contexts

**Classification code:** 723.5 Computer Applications

Computer Applications

- 912.4 Personnel

Personnel

- 971 Social Sciences

Social Sciences

**Funding Details:** Number: 71502048, Acronym: NSFC, Sponsor: National Natural Science Foundation of China;

Number: 2018B20714, Acronym: -, Sponsor: Fundamental Research Funds for the Central Universities;

**Funding text:** This work is supported by grant of The Natural Science Foundation of China (Project no. 71502048), and "Fundamental Research Funds for the Central Universities" (Projects no. 2018B20714).

**Compendex references:** YES

**Database:** Compendex

Compilation and indexing terms, Copyright 2021 Elsevier Inc.

**Data Provider:** Engineering Village

## 75. Unsupervised feature selection algorithm via local structure learning and kernel function

**Accession number:** 20190906545295

**Authors:** Li, Jiaye (1); Zhu, Xiaofeng (1); Gan, Jiangzhang (1); Zhang, Leyuan (1); Zhang, Shanwen (1); Zhang, Shichao (1)

**Author affiliation:** (1) Guangxi Normal University, China

**Corresponding author:** Zhu, Xiaofeng(seanzhuxf@gmail.com)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2018-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 18th International Conference on Electronic Business: AI and Smart Tourism, ICEB 2018

**Issue date:** 2018

**Publication year:** 2018

**Pages:** 721-730

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 18th International Conference on Electronic Business, ICEB 2018

**Conference date:** December 2, 2018 - December 6, 2018

**Conference location:** Guangxi, China

**Conference code:** 145276

**Publisher:** International Consortium for Electronic Business

**Abstract:** In order to reduce dimensionality of high-dimensional data, a series of feature selection algorithms have been proposed. But these algorithms have the following disadvantages: (1) they do not fully consider the nonlinear relationship between data features (2) they do not consider the similarity between data features. To solve the above

two problems, we propose an unsupervised feature selection algorithm based on local structure learning and kernel function. First, through the kernel function, we map each feature of the data to the kernel space, so that the nonlinear relationship of the data features can be fully exploited. Secondly, we apply the theory of local structure learning to the features of data, so that the similarity of data features is considered. Then we added a low rank constraint to consider the global information of the data. Finally, we add sparse learning to make feature selection. The experimental results show that the proposed algorithm has better results than the comparison methods. © 2018 International Consortium for Electronic Business. All rights reserved.

**Number of references:** 28

**Main heading:** Feature extraction

**Controlled terms:** Clustering algorithms - Electronic commerce - Electronics industry - Learning algorithms - Leisure industry - Tourism

**Uncontrolled terms:** Feature selection algorithm - Global informations - High dimensional data - Kernel function - Local structure - Non-linear relationships - Sparse learning - Unsupervised feature selection

**Classification code:** 723.5 Computer Applications

Computer Applications

- 903.1 Information Sources and Analysis

Information Sources and Analysis

**Funding Details:** Number: 18-A-01-01, Acronym: -, Sponsor: -; Number:

61573270,61672177,61836016,61876046,81701780, Acronym: NSFC, Sponsor: National Natural Science Foundation of China; Number: 2015GXNSFCB139011,2017GXNSFBA198221, Acronym: -, Sponsor: Natural Science Foundation of Guangxi Province; Number: GuiKeAD17195062, Acronym: -, Sponsor: Science and Technology Major Project of Guangxi;

**Funding text:** This work is partially supported by the China Key Research Program (Grant No: 2016YFB1000905); the Key Program of the National Natural Science Foundation of China (Grant No: 61836016); the Natural Science Foundation of China (Grants No: 61876046, 61573270, 81701780 and 61672177); the Project of Guangxi Science and Technology (GuiKeAD17195062); the Guangxi Natural Science Foundation (Grant No: 2015GXNSFCB139011, 2017GXNSFBA198221); the Guangxi Collaborative Innovation Center of Multi-Source Information Integration and Intelligent Processing; the Guangxi High Institutions Program of Introducing 100 High-Level Overseas Talents; and the Research Fund of Guangxi Key Lab of Multisource Information Mining and Security (18-A-01-01).

**Compendex references:** YES

**Database:** Compendex

Compilation and indexing terms, Copyright 2021 Elsevier Inc.

**Data Provider:** Engineering Village

## 76. Cultivating service diversification: A cross-level study

**Accession number:** 20190906545300

**Authors:** Lei, Yang (1); Zhang, Yiying (1); Cheung, Waiman (1)

**Author affiliation:** (1) Chinese University of Hong Kong, China

**Corresponding author:** Lei, Yang(yanglei@baf.cuhk.edu.hk)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2018-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 18th International Conference on Electronic Business: AI and Smart Tourism, ICEB 2018

**Issue date:** 2018

**Publication year:** 2018

**Pages:** 754-760

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 18th International Conference on Electronic Business, ICEB 2018

**Conference date:** December 2, 2018 - December 6, 2018

**Conference location:** Guangxi, China

**Conference code:** 145276

**Publisher:** International Consortium for Electronic Business

**Abstract:** Positive effects of firms' service diversification on competitive advantages have been documented. However, how to achieve service diversification remains unclear. Although studies point out information technology (IT) can enhance service diversification, the effects of specific ITs need further investigation. This study proposes a conceptual model to study the effects of four specific ITs usage on service diversification from resource-based view. Moreover, we

investigate the moderating effect of macro innovation environment. Firm-level data were collected from 690 logistics firms in 23 cities in China. Our results show that all four ITs contribute to service diversification. Macro innovation environment negatively moderates the relationship between emerging technologies and service diversification. © 2018 International Consortium for Electronic Business. All rights reserved.

**Number of references:** 58

**Main heading:** Service industry

**Controlled terms:** Big data - Competition - Electronic commerce - Electronics industry - Information management - Internet of things - Leisure industry - Management information systems - Tourism

**Uncontrolled terms:** Competitive advantage - Conceptual model - Emerging technologies - Innovation environments - Logistics information - Moderating effect - Resource-based view - Service diversification

**Classification code:** 723 Computer Software, Data Handling and Applications

Computer Software, Data Handling and Applications

- 911.2 Industrial Economics

Industrial Economics

**Compendex references:** YES

**Database:** Compendex

Compilation and indexing terms, Copyright 2021 Elsevier Inc.

**Data Provider:** Engineering Village

## 77. How social anxiety and social factors influence and moderate social commerce

**Accession number:** 20190906545487

**Authors:** Wu, Chih-Lun (1); Tai, Chih-Chung (1)

**Author affiliation:** (1) Taiwan Chengchi University, Taiwan

**Corresponding author:** Wu, Chih-Lun(clwu0423@gmail.com)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2018-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 18th International Conference on Electronic Business: AI and Smart Tourism, ICEB 2018

**Issue date:** 2018

**Publication year:** 2018

**Pages:** 364-372

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 18th International Conference on Electronic Business, ICEB 2018

**Conference date:** December 2, 2018 - December 6, 2018

**Conference location:** Guangxi, China

**Conference code:** 145276

**Publisher:** International Consortium for Electronic Business

**Abstract:** Following the fast growth of social networking sites (SNS) such as Facebook, Twitter and LinkedIn in the cyber world recently, social commerce has become an important emerging issue on the Internet. Researchers have studied not only online factors but also offline factors, according to the offline-to-online consumer-behavior model. Hence, this study applied approaches to social anxiety, online social interaction and online social support to comprehend the influences of social commerce intentions. After the research survey collected data from SNS (Facebook) users for one month, the researcher analyzed the data and made several findings. First, social anxiety positively moderates the relationship between online social support and social commerce intention. Second, online social interaction directly and indirectly affects social commerce intention through online social support. Theoretical contributions and managerial implications are also discussed, providing several future research directions and suggestions for scholars and SNS operators, respectively. © 2018 International Consortium for Electronic Business. All rights reserved.

**Number of references:** 57

**Main heading:** Social networking (online)

**Controlled terms:** Consumer behavior - Economic and social effects - Electronic commerce - Electronics industry - Leisure industry - Tourism

**Uncontrolled terms:** Future research directions - Managerial implications - Online consumer behavior - Social anxieties - Social commerces - Social interactions - Social networking sites - Social support

**Classification code:** 723 Computer Software, Data Handling and Applications

Computer Software, Data Handling and Applications

- 723.5 Computer Applications  
Computer Applications  
- 931.3 Atomic and Molecular Physics  
Atomic and Molecular Physics  
- 971 Social Sciences  
Social Sciences

**Compendex references:** YES

**Database:** Compendex

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**Data Provider:** Engineering Village

## **78. Improving the transfer flow of the Taipei Metro system for route development: Using open data of the origin and destination station**

**Accession number:** 20190906545302

**Authors:** Chang, Jui-Yen (1); Yang, Heng-Li (1)

**Author affiliation:** (1) National Chengchi University, Taiwan

**Corresponding author:** Chang, Jui-Yen(ketrel0225@gmail.com)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2018-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 18th International Conference on Electronic Business: AI and Smart Tourism, ICEB 2018

**Issue date:** 2018

**Publication year:** 2018

**Pages:** 766-772

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 18th International Conference on Electronic Business, ICEB 2018

**Conference date:** December 2, 2018 - December 6, 2018

**Conference location:** Guangxi, China

**Conference code:** 145276

**Publisher:** International Consortium for Electronic Business

**Abstract:** This paper has presented a decision model for optimizing route allocation with linear programming in the Taipei Metro system. The goal is to avoid centralization of a passenger in certain transfer stations, which means that some transfer stations are overloaded, whereas some transfer stations may be nearly empty. This study applies the open data of origin and destination station to solve this problem. Specifically, through a direct computational comparison of the objective function value and statistical analysis between our proposed model and the existing route development, it confirms that our route development would achieve a reduction of ridership transfer flow of approximately 15% in this case. © 2018 International Consortium for Electronic Business. All rights reserved.

**Number of references:** 10

**Main heading:** Open Data

**Controlled terms:** Data Analytics - Data communication systems - Electronic commerce - Electronics industry - Leisure industry - Linear programming - Subways - Tourism - Transfer stations

**Uncontrolled terms:** Computational comparisons - Decision modeling - Metro system - Objective function values - Origin and destinations

**Classification code:** 433.2 Passenger Railroad Transportation

Passenger Railroad Transportation

- 452 Municipal and Industrial Wastes; Waste Treatment and Disposal

Municipal and Industrial Wastes; Waste Treatment and Disposal

- 723.5 Computer Applications

Computer Applications

**Numerical data indexing:** Percentage 1.50e+01%

**Compendex references:** YES

**Database:** Compendex

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**Data Provider:** Engineering Village

## 79. A conceptual artificial intelligence application framework in human resource management

**Accession number:** 20190906545462

**Authors:** Jia, Qiong (1); Guo, Yue (1); Li, Rong (1); Li, Yurong (1); Chen, Yuwei (2)

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**Corresponding author:** Guo, Yue(yueggcn@aliyun.com)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2018-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 18th International Conference on Electronic Business: AI and Smart Tourism, ICEB 2018

**Issue date:** 2018

**Publication year:** 2018

**Pages:** 106-114

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 18th International Conference on Electronic Business, ICEB 2018

**Conference date:** December 2, 2018 - December 6, 2018

**Conference location:** Guangxi, China

**Conference code:** 145276

**Publisher:** International Consortium for Electronic Business

**Abstract:** This study proposes a conceptional framework of artificial intelligence (AI) technology application for human resource management (HRM). Based on the theory of the six basic dimensions of human resource management, which includes human resource strategy and planning, recruitment, training and development process, performance management, salary evaluation, and the employee relationship management, is combine with its potential corresponding AI technology application. With the cases analysis on recruitment of leap.ai and online training of Baidu, the recruitment dimension and training dimension with AI are further explored. Finally, the practical implication and future study are supplemented. This AIHRM conceptual model provides suggestions and directions for the development of AI in enterprise human resource management. © 2018 International Consortium for Electronic Business. All rights reserved.

**Number of references:** 27

**Main heading:** Artificial intelligence

**Controlled terms:** Compensation (personnel) - Electronic commerce - Electronics industry - Human resource management - Leisure industry - Natural resources management - Personnel training - Resource allocation - Tourism

**Uncontrolled terms:** Artificial intelligence technologies - Employee relationship managements - Enterprise human resource - Human resource strategy - Human resources management - Intelligent recruitment system - Intelligent training system - Training and development

**Classification code:** 723.4 Artificial Intelligence

Artificial Intelligence

- 723.5 Computer Applications

Computer Applications

- 912.2 Management

Management

- 912.4 Personnel

Personnel

**Funding Details:** Number: BK20150823, Acronym: -, Sponsor: -; Number: 16YJC630028,17YJC630047, Acronym: -, Sponsor: -; Number: 71702045,71872061, Acronym: NSFC, Sponsor: National Natural Science Foundation of China; Number: 2013B18020206,2014B14414, Acronym: -, Sponsor: Fundamental Research Funds for the Central Universities;

**Funding text:** This work was supported by National Natural Science Foundation of China [Grant No.71702045, 71872061]; Fundamental Research Funds for the Central Universities [Grant numbers 2013B18020206, 2014B14414];Jiangsu Provincial Natural Science Foundation of China [Grant number BK20150823] and the Humanities and Social Sciences Foundation of the Ministry of Education in China [Grant number 16YJC630028, 17YJC630047].

**Compendex references:** YES

**Database:** Compendex

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**Data Provider:** Engineering Village

## 80. Design of front-end for recommendation systems: Towards a hybrid architecture

**Accession number:** 20190906545473

**Authors:** Wang, Yixiao (1); Sharma, Ravi S. (1)

**Author affiliation:** (1) University of Canterbury, New Zealand

**Corresponding author:** Sharma, Ravi S.(rs.sharma@canterbury.ac.nz)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2018-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 18th International Conference on Electronic Business: AI and Smart Tourism, ICEB 2018

**Issue date:** 2018

**Publication year:** 2018

**Pages:** 221-230

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 18th International Conference on Electronic Business, ICEB 2018

**Conference date:** December 2, 2018 - December 6, 2018

**Conference location:** Guangxi, China

**Conference code:** 145276

**Publisher:** International Consortium for Electronic Business

**Abstract:** To provide personalized online shopping suggestions, recommendation systems play an increasingly important role in "closing a transaction". Some leading online movie sales platforms, such as Netflix and Rotten Tomatoes, have exploited content-based recommendation approaches. However, the issue of insufficient information about features in item profiles may lead to less accurate recommendations. In this paper, we propose a recommendation method known as Collective Intelligence Social Tagging (CIST), which combines a content-based recommendation approach with a social tagging function based on crowd-sourcing. We used an online movie sales platform as a use-case of how a CIST approach could increase the accuracy of recommended results and the overall user experience. In order to understand the feasibility and satisfaction level for CIST, we conducted fifteen design interviews to first determine user-developer perspectives on CIST, and then collected their overall design input. © 2018 International Consortium for Electronic Business. All rights reserved.

**Number of references:** 25

**Main heading:** Online systems

**Controlled terms:** Crowdsourcing - Electronic commerce - Electronics industry - Leisure industry - Recommender systems - Social networking (online) - Tourism - User experience

**Uncontrolled terms:** Collective intelligences - Content-based recommendation - Hybrid architectures - Online shopping - Online suggestions - Overall design - Recommendation methods - Social tagging

**Classification code:** 722.4 Digital Computers and Systems

Digital Computers and Systems

- 723 Computer Software, Data Handling and Applications

Computer Software, Data Handling and Applications

- 723.5 Computer Applications

Computer Applications

**Compendex references:** YES

**Database:** Compendex

Compilation and indexing terms, Copyright 2021 Elsevier Inc.

**Data Provider:** Engineering Village

## 81. The application of bounded online gradient descent algorithms for kernel based online learning in tourist number forecasting

**Accession number:** 20190906545308

**Authors:** Ren, Qinghui (1); Li, Shenglin (1); Song, Bo (1); Chen, Chen (1)

**Author affiliation:** (1) Army Logistics University of PLA, China

**Corresponding author:** Li, Shenglin(1936423516@qq.com)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2018-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 18th International Conference on Electronic Business: AI and Smart Tourism, ICEB 2018

**Issue date:** 2018

**Publication year:** 2018

**Pages:** 800-804

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 18th International Conference on Electronic Business, ICEB 2018

**Conference date:** December 2, 2018 - December 6, 2018

**Conference location:** Guangxi, China

**Conference code:** 145276

**Publisher:** International Consortium for Electronic Business

**Abstract:** With the upgrade of tourism informationization and the rise of intelligent city construction, the Internet of Things, Cloud Computing and other information technologies have been widely used in the tourism industry, making the development model and technical framework of intelligent tourism become a hot issue. Aiming at the problems of insufficient preparation and inadequate reception capacity of scenic spots in recent years, this paper proposes to apply machine learning algorithm to predict the number of tourists, so as to make an early response. In this paper, the characteristics of the application of the number of tourists are analyzed. The fixed buffer kernel online gradient descent algorithm is used to predict the number of tourists, and the actual number of tourists is brought into the algorithm for experiments. Finally, the rationality of the experimental process and results is analyzed. © 2018 International Consortium for Electronic Business. All rights reserved.

**Number of references:** 13

**Main heading:** Learning algorithms

**Controlled terms:** E-learning - Electronic commerce - Electronics industry - Forecasting - Gradient methods - Leisure industry - Machine learning - Tourism

**Uncontrolled terms:** City construction - Development model - Gradient descent algorithms - Informationization - Kernel gradient decline - Online learning - Reception capacity - Technical frameworks

**Classification code:** 723.5 Computer Applications

Computer Applications

- 921.6 Numerical Methods

Numerical Methods

**Funding Details:**

**Funding text:** This work is supported by the Department of Military Logistics, Army Logistics University of PLA.

**Compendex references:** YES

**Database:** Compendex

Compilation and indexing terms, Copyright 2021 Elsevier Inc.

**Data Provider:** Engineering Village

## 82. Automatic extraction of theft judgment information in natural language

**Accession number:** 20190906545465

**Authors:** Yang, Xi (1); Liu, Ying (1)

**Author affiliation:** (1) School of Computer Science and Information Engineering, Guangxi Normal University, Guilin, China

**Corresponding author:** Liu, Ying(1578694534@qq.com)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2018-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 18th International Conference on Electronic Business: AI and Smart Tourism, ICEB 2018

**Issue date:** 2018

**Publication year:** 2018

**Pages:** 134-142

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 18th International Conference on Electronic Business, ICEB 2018

**Conference date:** December 2, 2018 - December 6, 2018

**Conference location:** Guangxi, China

**Conference code:** 145276

**Publisher:** International Consortium for Electronic Business

**Abstract:** Recently artificial intelligence technology replaces traditional manual methods in many fields. Especially the application of artificial intelligence in the legal field liberates legal people from tedious work. For example, crimes are automatically classified based on the facts of the crime, such as the crime name and sentence prediction. However, the premise of these applications is based on the establishment of case bases. Therefore, this paper studies the issue of automatic extraction of verdict information in natural language. Due to the verbal writing specification, we use regular expressions to construct extraction rule templates for template matching. At the same time, we also use natural language processing technology to extract the relevant semantic information accurately. For further similar case searching. The research focus of this paper is on the theft verdicts, and establish a database of records for the theft of the theft and the prediction of the theft of the theft. © 2018 International Consortium for Electronic Business. All rights reserved.

**Number of references:** 15

**Main heading:** Crime

**Controlled terms:** Database systems - Electronic commerce - Electronics industry - Extraction - Knowledge acquisition - Leisure industry - Natural language processing systems - Semantics - Template matching - Tourism

**Uncontrolled terms:** Artificial intelligence technologies - Automatic extraction - Database of records - Natural language processing - Natural languages - Regular expressions - Semantic information - Writing specifications

**Classification code:** 723 Computer Software, Data Handling and Applications

Computer Software, Data Handling and Applications

- 802.3 Chemical Operations

Chemical Operations

- 971 Social Sciences

Social Sciences

**Funding Details:** Number: 61762016, Acronym: NSFC, Sponsor: National Natural Science Foundation of China;

**Funding text:** This work was supported by the National Natural Science Foundation of China No. 61762016

**Compendex references:** YES

**Database:** Compendex

Compilation and indexing terms, Copyright 2021 Elsevier Inc.

**Data Provider:** Engineering Village

### 83. Proposing a new research framework for loan allocation strategies in P2P lending

**Accession number:** 20190906545306

**Authors:** Rong, Yuting (1); Huang, Wei W. (1); Lai, Xin (1); Jiang, Cheng J. (2); Peng, Yangzi (1); Liu, Linzi (1)

**Author affiliation:** (1) Xi'an Jiaotong University, China; (2) Temple University, United States

**Corresponding author:** Rong, Yuting(jetryt@163.com)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2018-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 18th International Conference on Electronic Business: AI and Smart Tourism, ICEB 2018

**Issue date:** 2018

**Publication year:** 2018

**Pages:** 791-794

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 18th International Conference on Electronic Business, ICEB 2018

**Conference date:** December 2, 2018 - December 6, 2018

**Conference location:** Guangxi, China

**Conference code:** 145276

**Publisher:** International Consortium for Electronic Business

**Abstract:** One of the frontier Web 2.0 applications is online peer-to-peer (P2P) lending marketplace, where individual lenders and borrowers can virtually meet for loan transactions. From a lender's perspective, she not only wants to lower investment risk but also to gain as much return as possible. However, P2P lenders possess the inherent problem of information asymmetry that they don't really know if a borrower has capability to pay the loan or is truthfully willing to pay it in due time, leading them to a disadvantaged situation when making the decision of lending money to the



borrower. This study intends to consider the loan allocation as an optimization research problem using the research framework based upon modern portfolio theory with the aim of helping lenders achieve the two goals of gaining high return and lowering risk at the same time. The expected results of this research are twofold: 1) compared to a logistic regression based credit scoring method, we expect to make more profits for lenders with risk level unchanged, and 2) compared to a linear regression based profit scoring method, we expect to lower risk without lowering return. Our proposed new model could offer insights into how individual lenders can optimize their loan allocation strategies when considering return and risk simultaneously. © 2018 International Consortium for Electronic Business. All rights reserved.

**Number of references:** 17

**Main heading:** Peer to peer networks

**Controlled terms:** Electronic commerce - Electronics industry - Finance - Leisure industry - Logistic regression - Profitability - Tourism

**Uncontrolled terms:** Credit scoring - Loan allocation - Modern portfolio theories - Peer-to-peer lending - Profit scoring

**Classification code:** 722 Computer Systems and Equipment

Computer Systems and Equipment

- 723.5 Computer Applications

Computer Applications

- 911.2 Industrial Economics

Industrial Economics

**Funding Details:** Number: 71331005,71628103,71731009,71742005, Acronym: NSFC, Sponsor: National Natural Science Foundation of China;

**Funding text:** This work is partially supported by grants 71731009, 71742005, 71331005 and 71628103 of the National Natural Science Foundation of China.

**Compendex references:** YES

**Database:** Compendex

Compilation and indexing terms, Copyright 2021 Elsevier Inc.

**Data Provider:** Engineering Village

## 84. Privacy-preserving Wi-Fi access scheme for VANETs

**Accession number:** 20190906545497

**Authors:** Wan, Tao (1); Zhang, Hongjie (1); Zeng, Shengke (1)

**Author affiliation:** (1) Xihua University, China

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2018-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 18th International Conference on Electronic Business: AI and Smart Tourism, ICEB 2018

**Issue date:** 2018

**Publication year:** 2018

**Pages:** 461-469

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 18th International Conference on Electronic Business, ICEB 2018

**Conference date:** December 2, 2018 - December 6, 2018

**Conference location:** Guangxi, China

**Conference code:** 145276

**Publisher:** International Consortium for Electronic Business

**Abstract:** Recently, great progress has been made in the study of Vehicular Ad Hoc Networks (VANETs) to solve road congestion and prevent traffic accidents. To pursue the life quality, driving comfort and entertainment requirements are necessary, such as surfing the Internet, searching nearby gas stations, restaurants, etc. Hence, vehicles have to access to the Internet via Wi-Fi hotspots provided by roadside units (RSUs). Obviously, the connection to RSUs reveals the driving routine. The location privacy of vehicles is seriously threatened. In this paper, we propose a novel approach to protect the location privacy while accessing to Wi-Fi hotspots (RSUs). We adopt the idea of 'off-the-record' communication to achieve the privacy property. In other words, the vehicle performs a deniable authentication with RSU while accessing to Wi-Fi hotspot and the participants should have the deniability capability. RSU provides the Internet service to the vehicle if authentication completes. On the other hand, this authentication conversation leaves no 'paper trail' and therefore, the vehicle can deny to a third party that the fact of the authentication occurred since

the communication transcript could be produced (simulated) by others. © 2018 International Consortium for Electronic Business. All rights reserved.

**Number of references:** 15

**Main heading:** Vehicular ad hoc networks

**Controlled terms:** Authentication - Electronic commerce - Electronics industry - Leisure industry - Location - Tourism - Vehicles - Wireless local area networks (WLAN)

**Uncontrolled terms:** Deniability - Deniable authentication - Driving routines - Internet services - Location privacy - Privacy preserving - Privacy-preserving authentication - Vehicular Adhoc Networks (VANETs)

**Classification code:** 723 Computer Software, Data Handling and Applications

Computer Software, Data Handling and Applications

- 723.5 Computer Applications

Computer Applications

**Funding Details:** Number: 2017YFB0802000,2017YFB0802300, Acronym: -, Sponsor: -; Number: Z2016150,

Acronym: MOE, Sponsor: Ministry of Education of the People's Republic of China;

**Funding text:** This work is supported by Chunhui project of the Ministry of Education of China (Z2016150) and the National Key R & D Program of China (2017YFB0802300, 2017YFB0802000).

**Compendex references:** YES

**Database:** Compendex

Compilation and indexing terms, Copyright 2021 Elsevier Inc.

**Data Provider:** Engineering Village

## 85. Personalisation in location-based advertising: The moderating effect of brand familiarity

**Accession number:** 20190906545496

**Authors:** Wong, Valerie Tze Pei (1); Guan, Chong (1)

**Author affiliation:** (1) Singapore University of Social Sciences, Singapore, Singapore

**Corresponding author:** Guan, Chong(guanchong@suss.edu.sg)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2018-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 18th International Conference on Electronic Business: AI and Smart Tourism, ICEB 2018

**Issue date:** 2018

**Publication year:** 2018

**Pages:** 447-460

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 18th International Conference on Electronic Business, ICEB 2018

**Conference date:** December 2, 2018 - December 6, 2018

**Conference location:** Guangxi, China

**Conference code:** 145276

**Publisher:** International Consortium for Electronic Business

**Abstract:** The increasing adoption of location-based services and smart devices have propelled optimistic forecasts for location-based advertising as a unique and effective tool to improve consumers' attitude and purchase intention towards goods and services. While so, concerns regarding over the use of personalisation in a LBA context is prevalent. Given so, this study examines the influence of personalisation tactics on attitudes and purchase intention towards a focal product, with brand familiarity as a moderating factor, in the context of location-based advertising. It is hypothesized that high personalisation improves attitude towards a focal product and secondly, that high brand familiarity aids the resulting outcome of personalisation. Finally, it is hypothesized that attitude is positively related to purchase intention. As a central part of the study, an experiment involving 100 participants was conducted. The experiment's stimuli involved the presence and absence of personalisation and brand familiarity respectively, forming a total of four equal participant groups. It was found that personalisation positively affects the effects of location-based advertising; while brand familiarity indeed moderates the effects of personalisation on attitudes. Specifically, high brand familiarity allows for heightened effects of personalisation on attitudes, while in low brand familiarity situations, the effects of personalisation in a location-based ad is negligible. Since so, brand familiarity is an evidenced boundary condition for the effective application of location-based advertising. The study supports past research in establishing that brand familiarity lowers perceived risks and increases trust for location-based advertising, and that personalisation allows for more effective marketing messages. From a practical perspective, marketers of well-known brands should look to personalisation in location-based marketing opportunities to exploit their inherent brand value. On the other

hand, less-known brands should look to improve their brand familiarity before applying personalisation in location-based ads. © 2018 International Consortium for Electronic Business. All rights reserved.

**Number of references:** 30

**Main heading:** Location based services

**Controlled terms:** Electronic commerce - Electronics industry - Leisure industry - Location - Purchasing - Sales - Telecommunication services - Tourism

**Uncontrolled terms:** Location-based advertising - Marketing message - Marketing opportunities - Moderating effect - Moderating factors - Optimistic forecasts - Personalizations - Purchase intention

**Classification code:** 716 Telecommunication; Radar, Radio and Television

Telecommunication; Radar, Radio and Television

- 723.5 Computer Applications

Computer Applications

**Compendex references:** YES

**Database:** Compendex

Compilation and indexing terms, Copyright 2021 Elsevier Inc.

**Data Provider:** Engineering Village

## 86. Detection of gray hole attack in software defined networks

**Accession number:** 20190906545474

**Authors:** Hsieh, Yi-Ting (1); Ku, Cheng-Yuan (1)

**Author affiliation:** (1) National Chiao Tung University, Taiwan

**Corresponding author:** Ku, Cheng-Yuan(cooper.c.y.ku@gmail.com)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2018-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 18th International Conference on Electronic Business: AI and Smart Tourism, ICEB 2018

**Issue date:** 2018

**Publication year:** 2018

**Pages:** 231-239

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 18th International Conference on Electronic Business, ICEB 2018

**Conference date:** December 2, 2018 - December 6, 2018

**Conference location:** Guangxi, China

**Conference code:** 145276

**Publisher:** International Consortium for Electronic Business

**Abstract:** Gray Hole Attack is an advanced transformation of black hole attack. Both of them are a common type of attack in Wireless Sensor Network (WSN). Malicious nodes may constantly or randomly drop packets and therefore reduce the efficiency of the networking system. Furthermore Software Define Network (SDN) has been highly developed in recent years. In this type of networks switch/router functionality is separated into the control plane and data plane. Network managers can select control policies and build operating rules according to their own preferences. In addition, network protocols and packet fields are also programmable. Because the switch/router only implements the data transmission and executes the switching/routing decisions based on commands coming from control plane. Compromised switches/routers themselves or malicious control instructions both can result in selectively dropped packets. This makes a gray hole attack possible in the infrastructure of SDN. Therefore, this paper would like to discuss time-base and random-base gray hole attack in SDN, and then propose a useful detection method based on weighted K-Nearest Neighbor (KNN) and Genetic Algorithm (GA). The simulation data collected from switches/routers indicate that our method does demonstrate pretty good performance. © 2018 International Consortium for Electronic Business. All rights reserved.

**Number of references:** 18

**Main heading:** Wireless sensor networks

**Controlled terms:** Electronic commerce - Gallium - Genetic algorithms - Leisure industry - Nearest neighbor search - Network protocols - Software defined networking - Tourism

**Uncontrolled terms:** Black hole attack - Control instruction - Detection methods - Gray hole attack - Network managers - Networking systems - Weighted k-nearest neighbors - Weighted KNN

**Classification code:** 549.3 Nonferrous Metals and Alloys excluding Alkali and Alkaline Earth Metals

Nonferrous Metals and Alloys excluding Alkali and Alkaline Earth Metals

- 716.3 Radio Systems and Equipment

Radio Systems and Equipment

- 723.5 Computer Applications

Computer Applications

- 921.5 Optimization Techniques

Optimization Techniques

**Funding Details:** Number: 106-2410-H-009-025-MY3, Acronym: MOST, Sponsor: Ministry of Science and Technology, Taiwan;

**Funding text:** This work is partially supported by Minister of Science and Technology in Taiwan, ROC under the project MOST 106-2410-H-009-025-MY3.

**Compendex references:** YES

**Database:** Compendex

Compilation and indexing terms, Copyright 2021 Elsevier Inc.

**Data Provider:** Engineering Village

## 87. A similar legal case retrieval system by multiple speech question and answer

**Accession number:** 20190906545458

**Authors:** Liu, Ying (1); Yang, Xi (1)

**Author affiliation:** (1) School of Computer Science and Information Engineering, Guangxi Normal University, China

**Corresponding author:** Yang, Xi(543506332@qq.com)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2018-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 18th International Conference on Electronic Business: AI and Smart Tourism, ICEB 2018

**Issue date:** 2018

**Publication year:** 2018

**Pages:** 72-81

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 18th International Conference on Electronic Business, ICEB 2018

**Conference date:** December 2, 2018 - December 6, 2018

**Conference location:** Guangxi, China

**Conference code:** 145276

**Publisher:** International Consortium for Electronic Business

**Abstract:** In real life, on the one hand people often lack legal knowledge and legal awareness; on the other hand lawyers are busy, time-consuming, and expensive. As a result, a series of legal consultation problems cannot be properly handled. Although some legal robots can answer some problems about basic legal knowledge that are matched by keywords, they cannot do similar case retrieval and sentencing prediction according to the criminal facts described in natural language. To overcome the difficulty, we propose a similar case retrieval system based on natural language understanding. The system uses online speech synthesis of IFLYTEK and speech reading and writing technology, integrates natural language semantic processing technology and multiple rounds of question-and-answer dialogue mechanism to realise the legal knowledge question and answer with the memory-based context processing ability, and finally retrieves a case that is most similar to the criminal facts that the user consulted. After trial use, the system has a good level of human-computer interaction and high accuracy of information retrieval, which can largely satisfy people's consulting needs for legal issues. © 2018 International Consortium for Electronic Business. All rights reserved.

**Number of references:** 24

**Main heading:** Natural language processing systems

**Controlled terms:** Artificial intelligence - Crime - Electronic commerce - Electronics industry - Human computer interaction - Information retrieval - Leisure industry - Search engines - Semantics - Speech recognition - Speech synthesis - Tourism

**Uncontrolled terms:** Artificial intelligence and laws - Context processing - Legal questions - Natural language semantics - Natural language understanding - Natural languages - Semantic similarity - Writing technology

**Classification code:** 723 Computer Software, Data Handling and Applications

Computer Software, Data Handling and Applications

- 751.5 Speech

Speech

- 903.3 Information Retrieval and Use

Information Retrieval and Use

- 971 Social Sciences

Social Sciences

**Funding Details:** Number: 61762016, Acronym: NSFC, Sponsor: National Natural Science Foundation of China;

**Funding text:** This work was supported by the National Natural Science Foundation of China No. 61762016.

**Compendex references:** YES

**Database:** Compendex

Compilation and indexing terms, Copyright 2021 Elsevier Inc.

**Data Provider:** Engineering Village

## 88. Artificial intelligence in smart tourism: A conceptual framework

**Accession number:** 20190906545464

**Authors:** Tsaih, Rua-Huan (1); Hsu, Chih Chun (1)

**Author affiliation:** (1) National Chengchi University, Taiwan

**Corresponding author:** Hsu, Chih Chun(105356507@nccu.edu.tw)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2018-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 18th International Conference on Electronic Business: AI and Smart Tourism, ICEB 2018

**Issue date:** 2018

**Publication year:** 2018

**Pages:** 124-133

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 18th International Conference on Electronic Business, ICEB 2018

**Conference date:** December 2, 2018 - December 6, 2018

**Conference location:** Guangxi, China

**Conference code:** 145276

**Publisher:** International Consortium for Electronic Business

**Abstract:** Smart tourism destination as: an innovative tourist destination, built on an infrastructure of state-of-the-art technology guaranteeing the sustainable development of tourist areas, accessible to everyone, which facilitates the visitor's interaction with and integration into his or her surroundings, increases the quality of the experience at the destination, and improves residents' quality of life. Lopez de Avila (2015). Smart tourism involves multiple components and layers of "smart" include (1) Smart Destinations which was special cases of smart cities integration of ICT's into physical infrastructure, (2) Smart experience which specifically focus on technology-mediated tourism experience and their engagement through personalization, context-awareness and real-time monitoring, (3) Smart business refer to the complex business ecosystem that creates and supports the exchange of touristic resource and the co-creation of tourism experience. Gretzel et al, (2015). Smart tourism also clearly relies on the ability to not only collect enormous of data but to intelligently store, process, combine, analyze and use big data to inform business innovation, operations and services by artificial intelligence and big data technique. The rapid development of information communication technology (ICT) such as artificial intelligent, cloud computing, mobile device, big data mining and social media cause computing, storage and communication relevant software and hardware popular. Facebook, Amazon, Apple, Microsoft and Google have risen rapidly since 2000. In recent years, Emerging technologies such as Artificial Intelligence, Internet of Thing, Robotic, Cyber Security, 3D printer and Block chain also accelerate the development of industry toward digital transformation trend such as Fintech, e-commerce, smart cities, smart tourism, smart healthcare, smart manufacturing. This study proposes a conceptual framework that integrates (1) artificial intelligence/machine learning, (2) institution/organizational and (3) business processes to assist smart tourism stake holder to leverage artificial intelligence to integrate cross-departmental business and streamline key performance metrics to build a business-level IT Strategy. Artificial intelligence as long as the function includes (1) Cognitive engagement to (voice/pattern recognition function) (2) Cognitive process automation (Robotic Process Automation) (3) Cognitive insight (forecast, recommendation). © 2018 International Consortium for Electronic Business. All rights reserved.

**Number of references:** 28

**Main heading:** Tourism

**Controlled terms:** 3D printers - Artificial intelligence - Big data - Data mining - Digital storage - Electronic commerce - Electronics industry - Intelligent robots - Leisure industry - Metadata - Process control - Robotics - Security of data - Smart city - Social networking (online)

**Uncontrolled terms:** Artificial intelligent - Conceptual frameworks - Digital transformation - Emerging technologies  
 - Information communication technology - Real time monitoring - Software and hardwares - State-of-the-art technology

**Classification code:** 722.1 Data Storage, Equipment and Techniques

Data Storage, Equipment and Techniques

- 723 Computer Software, Data Handling and Applications

Computer Software, Data Handling and Applications

- 731.5 Robotics

Robotics

- 731.6 Robot Applications

Robot Applications

- 745.1.1 Printing Equipment

Printing Equipment

**Compendex references:** YES

**Database:** Compendex

Compilation and indexing terms, Copyright 2021 Elsevier Inc.

**Data Provider:** Engineering Village

## 89. Improve production process performance by using lean management - A case study of lady underwear

**Accession number:** 20190906545489

**Authors:** Lu, Tsung-Yueh (1); Wu, Mei-Fang (1); Wu, Chih-Lun (2)

**Author affiliation:** (1) Feng Chia University, Taiwan; (2) Taiwan Chengchi University, Taiwan

**Corresponding author:** Wu, Chih-Lun(cldwu0423@gmail.com)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2018-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 18th International Conference on Electronic Business: AI and Smart Tourism, ICEB 2018

**Issue date:** 2018

**Publication year:** 2018

**Pages:** 382-390

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 18th International Conference on Electronic Business, ICEB 2018

**Conference date:** December 2, 2018 - December 6, 2018

**Conference location:** Guangxi, China

**Conference code:** 145276

**Publisher:** International Consortium for Electronic Business

**Abstract:** People around the world work every year to improve the requirement standards of various commodities. Product life cycles are getting shorter, replaced by a number of innovative products; thus, in order to adapt to social changes, companies must develop a number of innovative products to attract consumers to buy. In Taiwan, most development occurs in small and medium traditional industries. Women's underwear is a personal privacy product. As women are gradually being taken more seriously, women's underwear products are gradually increasing in value, but the women's underwear and underwear fabric design process is quite complex and time-consuming. To help enterprises improve production performance, this study introduces lean enterprise management, using IE tools for program analysis, which provides time to study the law, and 7S management practices, identifies problems, and proposes ways to improve in order to verify the practices and analysis of results. Research pointed out that introducing lean management for enterprises to improve process performance, so that women's underwear product processes achieve significant improvement, improved results as follows: Before and after the improvement, GAP reached 23.83%; product production time was reduced; employee take line operation time reduced; quantization benefits of \$1,909,425 improved the efficiency to \$1,023,225, putting the cost at \$106,200; and table bad rate increased the cost by \$780,000. These results show that in the present study, lean management practices successfully improved the production performance of the women's underwear industry included in this study. It is expected that the process improvements can provide a method for the lingerie industry to continuously improve and succeed in raising the performance feedback of employees to increase cohesion so that the company reaps more profits and benefits. © 2018 International Consortium for Electronic Business. All rights reserved.

**Number of references:** 6

**Main heading:** Life cycle

**Controlled terms:** Electronic commerce - Electronics industry - Lean production - Leisure industry - Personnel - Product design - Time and motion study - Tourism

**Uncontrolled terms:** Lean - Management practices - Performance feedback - Process Improvement - Process performance - Production performance - Program analysis - Traditional industry

**Classification code:** 723.5 Computer Applications

Computer Applications

- 912.2 Management

Management

- 912.4 Personnel

Personnel

- 913.1 Production Engineering

Production Engineering

**Compendex references:** YES

**Database:** Compendex

Compilation and indexing terms, Copyright 2021 Elsevier Inc.

**Data Provider:** Engineering Village

## 90. Structural pattern recognition of fraudster groups in P2P transaction websites

**Accession number:** 20190906545283

**Authors:** Hu, Jinya (1); Li, Feng (1); Wang, Yanfeng (1); Zhuang, Dong (1)

**Author affiliation:** (1) School of Business Administration, South China University of Technology, China

**Corresponding author:** Hu, Jinya(bmhujinya@mail.scut.edu.cn)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2018-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 18th International Conference on Electronic Business: AI and Smart Tourism, ICEB 2018

**Issue date:** 2018

**Publication year:** 2018

**Pages:** 604-613

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 18th International Conference on Electronic Business, ICEB 2018

**Conference date:** December 2, 2018 - December 6, 2018

**Conference location:** Guangxi, China

**Conference code:** 145276

**Publisher:** International Consortium for Electronic Business

**Abstract:** The advent of online platform economy has increased online fraudsters. To detect them, most research explored to recognize characteristics from behavioral data of online users. In those works, each user was regarded as an individual subject, while relationship between users was underestimated. This paper introduced methodology of social network analysis to mine characteristics of relationship among online fraudsters. Using dataset from a Bitcoin trading website, a weighted signed network is constructed. By removing normal user nodes from the network, relationships between fraudsters are clarified. Then, major structural patterns of the snipped network are uncovered by way of community partitioning method. Based on real data from the Bitcoin trading website, 3 typical structures of fraudster groups are found: star-shaped structure, double-core structure and reticular structure. © 2018 International Consortium for Electronic Business. All rights reserved.

**Number of references:** 18

**Main heading:** Pattern recognition

**Controlled terms:** Bitcoin - Electronics industry - Leisure industry - Tourism - Websites

**Uncontrolled terms:** Fraudsters - Online platforms - Partitioning methods - Platform economy - Signed networks - Structural pattern - Structural pattern recognition - Typical structures

**Funding Details:** Number: Y9161010, Acronym: SCUT, Sponsor: South China University of Technology;

**Funding text:** This work is partially supported by Education and Teaching Reform Project of the South China University of Technology (Y9161010).

**Compendex references:** YES

**Database:** Compendex

Compilation and indexing terms, Copyright 2021 Elsevier Inc.

**Data Provider:** Engineering Village

## 91. The marketing effects of recommender systems in a B2C e-commerce context: A review and future directions

**Accession number:** 20190906545289

**Authors:** Zhao, Xiaoping (1); Gu, Tianlong (1); Liu, Juan (1); Tian, Bingbing (1)

**Author affiliation:** (1) Guilin University of Electronic Technology, China

**Corresponding author:** Gu, Tianlong(gu@guet.edu.cn)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2018-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 18th International Conference on Electronic Business: AI and Smart Tourism, ICEB 2018

**Issue date:** 2018

**Publication year:** 2018

**Pages:** 665-672

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 18th International Conference on Electronic Business, ICEB 2018

**Conference date:** December 2, 2018 - December 6, 2018

**Conference location:** Guangxi, China

**Conference code:** 145276

**Publisher:** International Consortium for Electronic Business

**Abstract:** As a kind of digital marketing technology, recommender systems (RSs) have already been widely applied for online retailers. Empirical studies have proved that RSs can increase the number of items sold, sell more diverse items, increase the user satisfaction and user fidelity and so on. However, our understanding of the marketing effects of RSs is still fragmented. Few comprehensive literature reviews has been published. This paper mainly reviews and synthesizes extant related literature in the last five years on the marketing effects of RSs, specifically focuses on how RSs influence consumers' decision quality, product demand and retailer profits in e-commerce market and e-commerce companies. From the angles of consumer behavior and marketing strategies, this study aims to discuss the positive and negative impacts which RSs bring to consumer and its providers, and presents some suggestions and potential directions for future research on RSs. © 2018 International Consortium for Electronic Business. All rights reserved.

**Number of references:** 30

**Main heading:** Electronic commerce

**Controlled terms:** Consumer behavior - Decision making - Electronics industry - Leisure industry - Online systems - Recommender systems - Sales - Tourism

**Uncontrolled terms:** Consumer decision making - Digital marketing - Empirical studies - Literature reviews - Marketing effect - Marketing strategy - Online retailers - User satisfaction

**Classification code:** 722.4 Digital Computers and Systems

Digital Computers and Systems

- 723.5 Computer Applications

Computer Applications

- 912.2 Management

Management

- 931.3 Atomic and Molecular Physics

Atomic and Molecular Physics

**Funding Details:** Number: 2017AA16004, Acronym: NSFC, Sponsor: National Natural Science Foundation of China; Number: -, Acronym: -, Sponsor: Science and Technology Major Project of Guangxi;

**Funding text:** This work is partially supported by grant U1711263 of the Natural Science Foundation of China; 2017AA16004 of the Science and Technology Project of Guangxi Province, China.

**Compendex references:** YES

**Database:** Compendex

Compilation and indexing terms, Copyright 2021 Elsevier Inc.

**Data Provider:** Engineering Village

## 92. Preface



**Accession number:** 20190906545450

**Authors:** Li, Eldon Y. (1, 2); Chang, Fang-Kai (3)

**Author affiliation:** (1) Chung Yuan Christian University, Taiwan; (2) Tongji University, Shanghai, China; (3) Da-Yeh University, Taiwan

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2018-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 18th International Conference on Electronic Business: AI and Smart Tourism, ICEB 2018

**Issue date:** 2018

**Publication year:** 2018

**Pages:** I-II

**Language:** English

**ISSN:** 16830040

**Document type:** Journal article (JA)

**Conference name:** 18th International Conference on Electronic Business, ICEB 2018

**Conference date:** December 2, 2018 - December 6, 2018

**Conference location:** Guangxi, China

**Conference code:** 145276

**Publisher:** International Consortium for Electronic Business

**Database:** Compendex

Compilation and indexing terms, Copyright 2021 Elsevier Inc.

**Data Provider:** Engineering Village

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**Query :** (((((International Conference on Electronic Business 2017) WN ALL)) AND  
({international consortium for electronic business} WN PN))

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**Results :** 50

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## 1. Progress of Fintech industry from venture capital point of view

**Accession number:** 20185006220138

**Authors:** Hsieh, Ku-Hsien (1); Li, Eldon Y. (1)

**Author affiliation:** (1) National Chengchi University, Taiwan

**Corresponding author:** Hsieh, Ku-Hsien(103356506@nccu.edu.tw)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2017-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 17th International Conference on Electronic Business: Smart Cities, ICEB 2017

**Issue date:** 2017

**Publication year:** 2017

**Pages:** 303-307

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 17th International Conference on Electronic Business: Smart Cities, ICEB 2017

**Conference date:** December 4, 2017 - December 8, 2017

**Conference location:** Al Barsha, Dubai, United arab emirates

**Conference code:** 142153

**Publisher:** International Consortium for Electronic Business

**Abstract:** Fintech (financial technology) is a term that broadly described the innovation of financial product and service using IT technology. Fintech uses a lot of new business model such as FXP2P and supply chain finance, and new technology such as blockchain and cryptocurrency. According to World Economic Forum report, fintech bring disruptive innovations that are reshaping the way financial services. Also, in World Economic Forum report have structured research framework against six (6) function of financial services and eleven (11) clusters of innovation. CrunchBase is a web 2.0 wiki-liked database for startup company that includes the information for founders, key team members, basic financial information, and venture capital funding and important events. This paper uses Python to web scrape CrunchBase website for studying the progress of Fintech industry and find out the development of IT technology and innovation. The objectives of this paper are to study the CrunchBase database to compare with World Economic Forum report research framework and find out the actual progress of Fintech industry. © 2017 International Consortium for Electronic Business. All right reserved.

**Number of references:** 13

**Main heading:** Fintech

**Controlled terms:** Electronic commerce - Electronics industry - Information retrieval - Investments - Plant startup - Smart city - Supply chains

**Uncontrolled terms:** Disruptive innovations - Financial information - Informetrics - New business models - Research frameworks - Supply chain finances - Venture Capital - Venture capital funding

**Classification code:** 723.5 Computer Applications

Computer Applications

- 903.3 Information Retrieval and Use

Information Retrieval and Use

- 912 Industrial Engineering and Management

Industrial Engineering and Management

**Compendex references:** YES

**Database:** Compendex

Compilation and indexing terms, Copyright 2021 Elsevier Inc.

**Data Provider:** Engineering Village

## 2. Modelling and analysis of E-health ecosystems: A case study of the United States

**Accession number:** 20185006220119

**Authors:** Stephanie, Lena (1)

**Author affiliation:** (1) Nanyang Technological University, Singapore, Singapore

**Corresponding author:** Stephanie, Lena(feli0015@e.ntu.edu.sg)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2017-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 17th International Conference on Electronic Business: Smart Cities, ICEB 2017

**Issue date:** 2017

**Publication year:** 2017

**Pages:** 161-172

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 17th International Conference on Electronic Business: Smart Cities, ICEB 2017

**Conference date:** December 4, 2017 - December 8, 2017

**Conference location:** Al Barsha, Dubai, United arab emirates

**Conference code:** 142153

**Publisher:** International Consortium for Electronic Business

**Abstract:** The United States (US), a world leader in medical technology, ironically also happens to be home to one of the least efficient healthcare systems in the world. The country's mammoth, unsustainable spending on healthcare has triggered several key healthcare reforms to put the country's healthcare system on the path for a major overhaul. One such reform was the HITECH Act of 2009 which made provision for incentives for adoption of Electronic Health Records by physicians and hospitals. The ultimate goal of this reform was to forge connectivity across the country's fragmented healthcare system in the hope that it would lead to efficiency and consequently, a drop in the country's healthcare expenditure. Although the reform no doubt spurred EHR adoption, its intended goal of connectivity has not been fully realized. A set of critical success factors has been proposed to overcome these issues and make the ecosystem both patient-centric and sustainable. © 2017 International Consortium for Electronic Business. All right reserved.

**Number of references:** 66

**Main heading:** eHealth

**Controlled terms:** Biomedical engineering - Ecosystems - Electronic commerce - Electronic document exchange - Electronics industry - Records management - Smart city

**Uncontrolled terms:** Critical success factor - Electronic health record - Health information exchanges - Healthcare system - Healthcare reforms - Hi-tech - Medical technologies - Modelling and analysis

**Classification code:** 454.3 Ecology and Ecosystems

Ecology and Ecosystems

- 461.1 Biomedical Engineering

Biomedical Engineering

- 723.5 Computer Applications

Computer Applications

**Funding Details:**

**Funding text:** The research reported in this paper is part of the author's doctoral dissertation supervised by Dr. Ravi Sharma at Nanyang Technological University (NTU). Many thanks are due to Singapore's NRF IDM grant which funded the activities of the SIGIDE research group at NTU from 2008 to 2012.

**Compendex references:** YES

**Database:** Compendex

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**Data Provider:** Engineering Village

### 3. Industrie 4.0 and leadership

**Accession number:** 20185006220116

**Authors:** Prince, Kylie A. (1)

**Author affiliation:** (1) James Cook University, Cairns, Australia

**Corresponding author:** Prince, Kylie A. (kylie.prince@my.jcu.edu.au)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2017-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 17th International Conference on Electronic Business: Smart Cities, ICEB 2017

**Issue date:** 2017

**Publication year:** 2017

**Pages:** 132-139

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 17th International Conference on Electronic Business: Smart Cities, ICEB 2017

**Conference date:** December 4, 2017 - December 8, 2017

**Conference location:** Al Barsha, Dubai, United arab emirates

**Conference code:** 142153

**Publisher:** International Consortium for Electronic Business

**Abstract:** Industrie 4.0 focuses on end-to-end digital transformation with digital ecosystems. Digital transformation and industrie 4.0 are more efficient and effective with particular skills, knowledge and attitude. Leaders who practice leadership 4.0 are digital leaders and digital transformers. This digital leadership framework is based on a transformational, transactional, and authentic leadership matrix. This trichotomous leadership model is based on Adaptive Structuration Theory (AST) which applies the impact of Advanced Information Technology with leadership in a recursive relationship with each affecting and transforming the other. © 2017 International Consortium for Electronic Business. All right reserved.

**Number of references:** 33

**Main heading:** Electronics industry

**Controlled terms:** Electronic commerce - Smart city

**Uncontrolled terms:** Authentic - Digital age - Digital leadership - Transactional - Transformational

**Classification code:** 723.5 Computer Applications

Computer Applications

**Compendex references:** YES

**Database:** Compendex

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**Data Provider:** Engineering Village

#### 4. RegTech evolution: The TrustChain

**Accession number:** 20185006220139

**Authors:** Huang, Grant K.J. (1); Chiang, Kuo-Huie (1)

**Author affiliation:** (1) National Chengchi University, Taiwan

**Corresponding author:** Huang, Grant K.J.(guanruey@icloud.com)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2017-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 17th International Conference on Electronic Business: Smart Cities, ICEB 2017

**Issue date:** 2017

**Publication year:** 2017

**Pages:** 308-311

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 17th International Conference on Electronic Business: Smart Cities, ICEB 2017

**Conference date:** December 4, 2017 - December 8, 2017

**Conference location:** Al Barsha, Dubai, United arab emirates

**Conference code:** 142153

**Publisher:** International Consortium for Electronic Business

**Abstract:** Integrity is a lifelong duty. Credit is not only given to natural persons but also to corporate citizens.

In this work, we propose a blockchain-based RegTech system which helps to track the credit of organizations.

The creditability of tender entity, participants and subcontractors altogether comprise the long-lasting undeniable TrustChain. The framework is scalable to all elements deemed necessary to corporate score card and referral to

the developing RegTech. We expect the consistency and honesty of corporate citizens lay the foundation of a Trust

society. © 2017 International Consortium for Electronic Business. All right reserved.

**Number of references:** 7

**Main heading:** Electronics industry

**Controlled terms:** Blockchain - Electronic commerce - Smart city

**Uncontrolled terms:** Corporate social responsibilities (CSR) - Credit - Long lasting - RegTech - Score cards

**Classification code:** 723.5 Computer Applications

Computer Applications

Computer Applications

**Compendex references:** YES

**Database:** Compendex

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**Data Provider:** Engineering Village

## 5. The antecedents and outcomes of identifiability in online brand communities

**Accession number:** 20185006220131

**Authors:** Meek, Stephanie (1); Shen, Kathy (2)

**Author affiliation:** (1) Edith Cowan University, Australia; (2) University of Wollongong, Dubai, United Arab Emirates

**Corresponding author:** Meek, Stephanie(s.meek@ecu.edu.au)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2017-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 17th International Conference on Electronic Business: Smart Cities, ICEB 2017

**Issue date:** 2017

**Publication year:** 2017

**Pages:** 258-263

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 17th International Conference on Electronic Business: Smart Cities, ICEB 2017

**Conference date:** December 4, 2017 - December 8, 2017

**Conference location:** Al Barsha, Dubai, United arab emirates

**Conference code:** 142153

**Publisher:** International Consortium for Electronic Business

**Abstract:** User generated content is a fundamental aspect of an online brand community (OBC), therefore facilitating the continuance of knowledge sharing and social interaction is imperative to the success of the community. The purpose of this study is to investigate the influence of perceived identifiability on the factors that encourage ongoing participation in OBCs. Results indicate that perceived identifiability has a significant positive influence on an OBC members' participative behaviour and sense of belonging. Whilst network ties have a significant positive influence on perceived identifiability and a sense of belonging all of which are factors shown to be critical to the ongoing success and sustainability of OBCs. © 2017 International Consortium for Electronic Business. All right reserved.

**Number of references:** 34

**Main heading:** Electronics industry

**Controlled terms:** Electronic commerce - Smart city

**Uncontrolled terms:** Identifiability - Network tie - Online brand community - Participative behaviour - Sense of belonging

**Classification code:** 723.5 Computer Applications

Computer Applications

**Compendex references:** YES

**Database:** Compendex

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**Data Provider:** Engineering Village

## 6. Improving the performance of inventory control - Taking W Company as an example

**Accession number:** 20185006220136

**Authors:** Chuang, Howard Hao-Chun (1); Chang, Hsin-Lu (1); Hsu, Po-Chun (1)

**Author affiliation:** (1) National Chengchi University, Taiwan

**Corresponding author:** Hsu, Po-Chun(105356009@nccu.edu.tw)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2017-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 17th International Conference on Electronic Business: Smart Cities, ICEB 2017

**Issue date:** 2017

**Publication year:** 2017

**Pages:** 295-298

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 17th International Conference on Electronic Business: Smart Cities, ICEB 2017

**Conference date:** December 4, 2017 - December 8, 2017

**Conference location:** Al Barsha, Dubai, United arab emirates

**Conference code:** 142153

**Publisher:** International Consortium for Electronic Business

**Abstract:** The W company is facing a problem that their demand is intermittent. Because intermittent demand is difficult to predict, there are some models being created to deal with it. Using these models, such as Bootstrapping, Croston's method, and Discrete-auto-regressive-moving-average model, to predict and compare with the current one if any of them outperforms. © 2017 International Consortium for Electronic Business. All right reserved.

**Number of references:** 3

**Main heading:** Autoregressive moving average model

**Controlled terms:** Electronic commerce - Electronics industry - Inventory control - Smart city

**Uncontrolled terms:** Auto regressive moving average modeling - Bootstrapping - Croston's method - Intermittent demand

**Classification code:** 723.5 Computer Applications

Computer Applications

- 911.3 Inventory Control

Inventory Control

**Compendex references:** YES

**Database:** Compendex

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**Data Provider:** Engineering Village

## 7. A co-citation bibliometric analysis of crowdsourcing research

**Accession number:** 20185006220099

**Authors:** Liang, Xiaobei (1); He, Minghua (1, 2)

**Author affiliation:** (1) Tongji University, Shanghai, China; (2) Jingtangshan University, China

**Corresponding author:** He, Minghua(hmhminy@163.com)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2017-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 17th International Conference on Electronic Business: Smart Cities, ICEB 2017

**Issue date:** 2017

**Publication year:** 2017

**Pages:** 1-12

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 17th International Conference on Electronic Business: Smart Cities, ICEB 2017

**Conference date:** December 4, 2017 - December 8, 2017

**Conference location:** Al Barsha, Dubai, United arab emirates

**Conference code:** 142153

**Publisher:** International Consortium for Electronic Business

**Abstract:** Crowdsourcing has gained increasing attention from scholars in a broad range of fields such as computer science, engineering, information system, business, and economics. However, few crowdsourcing studies are conducted from the bibliometric perspective. This paper conducts document co-citation, author co-citation, journal co-citation, and keyword co-word analysis in the crowdsourcing research field by using CiteSpace and Web of Science™ Core Collection database, aiming to identify highly cited articles and journals and influential authors in the crowdsourcing research field during the time span from 2008 to 2016 and to find out current hot research topics and future directions in the crowdsourcing research field. © 2017 International Consortium for Electronic Business. All right reserved.

**Number of references:** 43

**Main heading:** Crowdsourcing

**Controlled terms:** Electronic commerce - Electronics industry - Smart city

**Uncontrolled terms:** Bibliometric - Bibliometric analysis - Co-word analysis - Cocitation - Hot research topics - Research fields - Time span - Web of Science

**Classification code:** 723.5 Computer Applications

Computer Applications

**Funding Details:** Number: -, Acronym: MOE, Sponsor: Ministry of Education of the People's Republic of China;

**Funding text:** This work is supported by grant 17YJA630050 of the Humanities and Social Science Fund of the Ministry of Education, China.

**Compendex references:** YES

**Database:** Compendex  
Compilation and indexing terms, Copyright 2021 Elsevier Inc.  
**Data Provider:** Engineering Village

## 8. Drivers of eHealth adoption: Linking eHealth adoption to service concept

**Accession number:** 20185006220110

**Authors:** Chang, Hsin-Lu (1); Szu, Wei-Wen (1); Tu, Yu-Ju (1)

**Author affiliation:** (1) National Chengchi University, Taipei City, Taiwan

**Corresponding author:** Szu, Wei-Wen(wei-wen\_szu@fenghui.com.tw)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2017-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 17th International Conference on Electronic Business: Smart Cities, ICEB 2017

**Issue date:** 2017

**Publication year:** 2017

**Pages:** 85-92

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 17th International Conference on Electronic Business: Smart Cities, ICEB 2017

**Conference date:** December 4, 2017 - December 8, 2017

**Conference location:** Al Barsha, Dubai, United arab emirates

**Conference code:** 142153

**Publisher:** International Consortium for Electronic Business

**Abstract:** Researchers and practitioners are keenly interested in understanding what drives eHealth adoption in recent years. This is largely because, while eHealth can lead to cost-effective and quality health care, the actual adoption rate of eHealth remains low across countries. In prior literature, it was clearly indicated that well-designed eHealth services are critical to eHealth adoption. In this study, our findings further show that, what may motivate patients' adoption is more strongly associated with the design of eHealth caring service, and the design of eHealth IT service is more likely to be associated with patients' continual use. © 2017 International Consortium for Electronic Business. All right reserved.

**Number of references:** 18

**Main heading:** eHealth

**Controlled terms:** Cost effectiveness - Electronic commerce - Electronics industry - Smart city

**Uncontrolled terms:** Continual use - Initial adoption - IT services - Service concept - Service portfolio

**Classification code:** 723.5 Computer Applications

Computer Applications

- 911.2 Industrial Economics

Industrial Economics

**Compendex references:** YES

**Database:** Compendex

Compilation and indexing terms, Copyright 2021 Elsevier Inc.

**Data Provider:** Engineering Village

## 9. Real money trading in virtual worlds

**Accession number:** 20185006220123

**Authors:** Nazir, Mohamed (1); Hamilton, John R. (1); Tee, SingWhat (1)

**Author affiliation:** (1) James Cook University, Australia

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2017-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 17th International Conference on Electronic Business: Smart Cities, ICEB 2017

**Issue date:** 2017

**Publication year:** 2017

**Pages:** 202-207

**Language:** English

**ISSN:** 16830040



**Document type:** Conference article (CA)

**Conference name:** 17th International Conference on Electronic Business: Smart Cities, ICEB 2017

**Conference date:** December 4, 2017 - December 8, 2017

**Conference location:** Al Barsha, Dubai, United arab emirates

**Conference code:** 142153

**Publisher:** International Consortium for Electronic Business

**Abstract:** Significant real money is traded into and out of virtual world currencies. Virtual world participating users buy and sell virtual products, virtual goods, virtual properties, virtual services, and other virtual items of interest. As gamers, some trade real money to: buy assets including characters, currencies and other auctioned items. Others buy at virtual auctions, purchase virtual currencies, purchase virtual land, build virtual properties and use virtual facilities. The Theory of Planned Behavior maps a structural equation modelling approach for real money trading (RMT) - suggesting RMT can be behaviorally promoted to participant users in virtual worlds. © 2017 International Consortium for Electronic Business. All right reserved.

**Number of references:** 25

**Main heading:** Virtual reality

**Controlled terms:** Electronic commerce - Electronics industry - Sales - Smart city

**Uncontrolled terms:** Attitude - Intention - Perceived behavioral control - Planned behavior - Second Life - Structural modeling - Virtual worlds

**Classification code:** 723 Computer Software, Data Handling and Applications

Computer Software, Data Handling and Applications

- 723.5 Computer Applications

Computer Applications

**Compendex references:** YES

**Database:** Compendex

Compilation and indexing terms, Copyright 2021 Elsevier Inc.

**Data Provider:** Engineering Village

## 10. Deciding fast and slow in risk decision making: An experimental study

**Accession number:** 20185006220108

**Authors:** Wang, Xiaorui (1); Zhou, Ronggang (1); Zhang, Renqian (1)

**Author affiliation:** (1) Beihang University, China

**Corresponding author:** Zhou, Ronggang(zhrg@buaa.edu.cn)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2017-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 17th International Conference on Electronic Business: Smart Cities, ICEB 2017

**Issue date:** 2017

**Publication year:** 2017

**Pages:** 72-78

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 17th International Conference on Electronic Business: Smart Cities, ICEB 2017

**Conference date:** December 4, 2017 - December 8, 2017

**Conference location:** Al Barsha, Dubai, United arab emirates

**Conference code:** 142153

**Publisher:** International Consortium for Electronic Business

**Abstract:** The current study presents findings of an experiment. Response time was used to investigate fast deciders' (FD) and slow deciders' (SD) behavioral differences. SDs were found to be more cognitive than FDs and this could induce an increase in average response time. Both FDs and SDs showed aversion to extreme options, but they behaved differently with option 'S' being "safer" among groups. Moreover, FDs responded more instinctively to negative feedbacks. © 2017 International Consortium for Electronic Business. All right reserved.

**Number of references:** 11

**Main heading:** Decision making

**Controlled terms:** Electronic commerce - Electronics industry - Response time (computer systems) - Risks - Smart city

**Uncontrolled terms:** Decision time - Risk decision - Risk decision making

**Classification code:** 723.5 Computer Applications

Computer Applications

- 912.2 Management

Management

- 914.1 Accidents and Accident Prevention

Accidents and Accident Prevention

**Funding Details:** Number: 71640034, Acronym: NSFC, Sponsor: National Natural Science Foundation of China;

**Funding text:** This work was supported by the National Natural Science Foundation of China [grant numbers 71640034].

**Compendex references:** YES

**Database:** Compendex

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**Data Provider:** Engineering Village

## 11. Graph transformation based guidance for web navigation

**Accession number:** 20185006220115

**Authors:** Yen, Benjamin P.-C. (1); Ni, Kevin (2); Chu, L.K. (1)

**Author affiliation:** (1) University of Hong Kong, Hong Kong, Hong Kong; (2) Southwestern University of Finance and Economics, China

**Corresponding author:** Yen, Benjamin P.-C.(benyen@business.hku.hk)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2017-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 17th International Conference on Electronic Business: Smart Cities, ICEB 2017

**Issue date:** 2017

**Publication year:** 2017

**Pages:** 125-131

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 17th International Conference on Electronic Business: Smart Cities, ICEB 2017

**Conference date:** December 4, 2017 - December 8, 2017

**Conference location:** Al Barsha, Dubai, United arab emirates

**Conference code:** 142153

**Publisher:** International Consortium for Electronic Business

**Abstract:** With growing information volume and diverse user preferences on the web, the performance of web information retrieval has become a critical issue. Web navigation is dramatically influenced by the organizations of web contents. Hence, useful navigation guidance can considerably accelerate the information retrieval process. In this paper, web navigation is formulated as a Directed Group Steiner Forest (DGSF) problem in line graph representation of the website. A heuristic algorithm is proposed to tackle the DGSF problem and attain the suboptimal solution in polynomial time. Simulations are conducted to compare the mean searching time for the proposed DGSF-based navigation guidance and other approaches. The results suggest that the DGSF-based navigation guidance can significantly reduce the mean searching time, especially when the number of web pages is large while the number of destination pages is moderate. The discussion is also made for extending the model to take into account the websites owner's interests and other concerns as well. © 2017 International Consortium for Electronic Business. All right reserved.

**Number of references:** 35

**Main heading:** Information retrieval

**Controlled terms:** Electronic commerce - Electronic guidance systems - Electronics industry - Graph theory - Heuristic algorithms - Polynomial approximation - Smart city - Websites

**Uncontrolled terms:** Graph Transformation - Line graph - Navigation guidance - Polynomial-time - Steiner forests - Suboptimal solution - Web information retrieval - Web navigation

**Classification code:** 723.1 Computer Programming

Computer Programming

- 723.5 Computer Applications

Computer Applications

- 903.3 Information Retrieval and Use

Information Retrieval and Use

- 921.4 Combinatorial Mathematics, Includes Graph Theory, Set Theory

Combinatorial Mathematics, Includes Graph Theory, Set Theory

- 921.6 Numerical Methods

Numerical Methods

**Funding Details:** Number: GRF 719409E, Acronym: -, Sponsor: -;

**Funding text:** This work was supported in part by Hong Kong RGC under grant GRF 719409E and Joint Research Fund (JRF) 15-18. We would like to thank Mr. Chris Cheung and Mr. Culture Wang for their help with the case study of real world website.

**Compendex references:** YES

**Database:** Compendex

Compilation and indexing terms, Copyright 2021 Elsevier Inc.

**Data Provider:** Engineering Village

## 12. The acceptance of the application of blockchain technology in the supply chain process of the Thai automotive industry

**Accession number:** 20185006220130

**Authors:** Supranee, Sowichaya (1); Rotchanakitumnuai, Siriluck (1)

**Author affiliation:** (1) Thammasat University, Thailand

**Corresponding author:** Supranee, Sowichaya(s.sowichaya@yahoo.com)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2017-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 17th International Conference on Electronic Business: Smart Cities, ICEB 2017

**Issue date:** 2017

**Publication year:** 2017

**Pages:** 252-257

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 17th International Conference on Electronic Business: Smart Cities, ICEB 2017

**Conference date:** December 4, 2017 - December 8, 2017

**Conference location:** Al Barsha, Dubai, United arab emirates

**Conference code:** 142153

**Publisher:** International Consortium for Electronic Business

**Abstract:** Blockchain technology is an optional new technologies to manage the supply chain process. This technology helps to improve and solve the issue of transparency as well as monitor operations in the supply chain. The study found that the perceived benefits of Blockchain technology in the automotive industry, inter-organizational trust are the important factors that affect the acceptance of Blockchain in the supply chain process. Inter-organizational relationship has negative impact on Blockchain technology acceptance. The non-mediated power is a key factor that builds inter-organizational trust and leads to success in the technology application in this industry. The results can be used as a guideline for the automotive industry to apply Blockchain technologies to the operations. © 2017 International Consortium for Electronic Business. All right reserved.

**Number of references:** 44

**Main heading:** Automotive industry

**Controlled terms:** Blockchain - Electronic commerce - Electronics industry - Smart city - Supply chains

**Uncontrolled terms:** Inter-organizational relationships - Inter-organizational trust - Key factors - Perceived benefits - Supply chain process - Technology acceptance - Technology application

**Classification code:** 723.5 Computer Applications

Computer Applications

- 912 Industrial Engineering and Management

Industrial Engineering and Management

- 913 Production Planning and Control; Manufacturing

Production Planning and Control; Manufacturing

**Compendex references:** YES

**Database:** Compendex

Compilation and indexing terms, Copyright 2021 Elsevier Inc.

**Data Provider:** Engineering Village

## 13. Wearable medical devices acceptance and expectance of senior population in China

**Accession number:** 20185006220129

**Authors:** Zhang, Bo (1); Li, Yan (1)

**Author affiliation:** (1) ESSEC Business School, Singapore, Singapore  
**Corresponding author:** Zhang, Bo(b00689865@essec.edu)  
**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)  
**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)  
**Volume:** 2017-December  
**Part number:** 1 of 1  
**Issue title:** Proceedings of the 17th International Conference on Electronic Business: Smart Cities, ICEB 2017  
**Issue date:** 2017  
**Publication year:** 2017  
**Pages:** 241-251  
**Language:** English  
**ISSN:** 16830040  
**Document type:** Conference article (CA)  
**Conference name:** 17th International Conference on Electronic Business: Smart Cities, ICEB 2017  
**Conference date:** December 4, 2017 - December 8, 2017  
**Conference location:** Al Barsha, Dubai, United arab emirates  
**Conference code:** 142153  
**Publisher:** International Consortium for Electronic Business  
**Abstract:** The purpose of this paper is to investigate: 1. How well the senior population in China accept the wearable medical devices; 2. What kind of products the senior population in China would like to choose; 3. At what price the senior population are willing to pay. Collected information from secondary data resources to understand the wearable medical devices market in China and conducted online survey through professional survey software WenJuanXing to collect primary data from 217 elderlies (above 50 years old) in China. Based on the data collected by the online survey, half of the respondents are interested in using wearing medical devices. Top three concerns about the wearable medical devices are safety, veracity and reliability. About 56% of respondents are willing to pay no more than 600 RMB (about 90 USD) for the device itself. About 54% of respondents are willing to pay no more than 60 RMB / Month for the service (about 110 USD per year). © 2017 International Consortium for Electronic Business. All right reserved.  
**Number of references:** 12  
**Main heading:** Wearable technology  
**Controlled terms:** Electronic commerce - Electronics industry - Smart city - Surveys  
**Uncontrolled terms:** Medical Devices - Online surveys - Primary data - Secondary datum - Senior population - Technology acceptance - Wearable medical devices  
**Classification code:** 723.5 Computer Applications  
Computer Applications  
**Numerical data indexing:** Age 5.00e+01yr, Percentage 5.40e+01%, Percentage 5.60e+01%  
**Compendex references:** YES  
**Database:** Compendex  
Compilation and indexing terms, Copyright 2021 Elsevier Inc.  
**Data Provider:** Engineering Village

#### 14. GitHub: Factors influencing project activity levels

**Accession number:** 20185006220114  
**Authors:** Alshomali, Mohammad Azeez (1); Hamilton, John R. (1); Holdsworth, Jason (1); Tee, SingWhat (1)  
**Author affiliation:** (1) James Cook University, Australia  
**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)  
**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)  
**Volume:** 2017-December  
**Part number:** 1 of 1  
**Issue title:** Proceedings of the 17th International Conference on Electronic Business: Smart Cities, ICEB 2017  
**Issue date:** 2017  
**Publication year:** 2017  
**Pages:** 116-124  
**Language:** English  
**ISSN:** 16830040  
**Document type:** Conference article (CA)  
**Conference name:** 17th International Conference on Electronic Business: Smart Cities, ICEB 2017  
**Conference date:** December 4, 2017 - December 8, 2017  
**Conference location:** Al Barsha, Dubai, United arab emirates  
**Conference code:** 142153  
**Publisher:** International Consortium for Electronic Business

**Abstract:** Open source software projects typically extend the capabilities of their software by incorporating code contributions from a diverse cross-section of developers. This GitHub structural path modelling study captures the current top 100 JavaScript projects in operation for at least one year or more. It draws on three theories (information integration, planned behavior, and social translucence) to help frame its comparative path approach, and to show ways to speed the collaborative development of GitHub OSS projects. It shows a project's activity level increases with: (1) greater responder-group collaborative efforts, (2) increased numbers of major critical project version releases, and (3) the generation of further commits. However, the generation of additional forks negatively impacts overall project activity levels. © 2017 International Consortium for Electronic Business. All right reserved.

**Number of references:** 41

**Main heading:** Open source software

**Controlled terms:** Electronic commerce - Electronics industry - High level languages - Open systems - Smart city

**Uncontrolled terms:** GitHub - Javascript - Open sources - Popularity - Social media - Software repositories

**Classification code:** 723 Computer Software, Data Handling and Applications

Computer Software, Data Handling and Applications

**Compendex references:** YES

**Database:** Compendex

Compilation and indexing terms, Copyright 2021 Elsevier Inc.

**Data Provider:** Engineering Village

## 15. Emergency management system design for accurate data: A case study

**Accession number:** 20185006220111

**Authors:** Tarhini, Abbas (1); Srour, F. Jordan (1); Badr, Nabil Georges (2)

**Author affiliation:** (1) Department of Information Technology and Operations Management, Adnan Kassar School of Business, Lebanese American University, Beirut, Lebanon; (2) Grenoble Graduate School of Business, Grenoble, France

**Corresponding author:** Tarhini, Abbas(abbas.tarhini@lau.edu.lb)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2017-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 17th International Conference on Electronic Business: Smart Cities, ICEB 2017

**Issue date:** 2017

**Publication year:** 2017

**Pages:** 93-98

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 17th International Conference on Electronic Business: Smart Cities, ICEB 2017

**Conference date:** December 4, 2017 - December 8, 2017

**Conference location:** Al Barsha, Dubai, United arab emirates

**Conference code:** 142153

**Publisher:** International Consortium for Electronic Business

**Abstract:** In any city - smart or not - emergency response is a critical service. In smart cities, the use of technology to manage access to and dispatching of emergency vehicles is particularly important. However, when a system must manage processes spanning multiple computers, clock drift becomes a prominent issue. We show the impact that clock drift can have in a prototype emergency management dispatch system along with a case-study illustrating design techniques that can remedy this issue. © 2017 International Consortium for Electronic Business. All right reserved.

**Number of references:** 16

**Main heading:** Emergency services

**Controlled terms:** Civil defense - Clocks - Design - Electronic commerce - Electronics industry - Emergency vehicles - Information management - Risk management - Smart city

**Uncontrolled terms:** Clock drift - Design technique - Dispatch systems - Emergency management - Emergency management systems - Emergency response - Multiple computers - Time synchronization

**Classification code:** 404.2 Civil Defense

Civil Defense

- 723.5 Computer Applications

Computer Applications

- 914.1 Accidents and Accident Prevention

Accidents and Accident Prevention

- 943.3 Special Purpose Instruments

Special Purpose Instruments

**Compendex references:** YES

**Database:** Compendex

Compilation and indexing terms, Copyright 2021 Elsevier Inc.

**Data Provider:** Engineering Village

## 16. Constructing the smart hotel architecture - A case study in Taiwan

**Accession number:** 20185006220107

**Authors:** Lai, Wen-Chi (1); Hung, Wei-Hsi (1)

**Author affiliation:** (1) National Chengchi University, Taiwan

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2017-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 17th International Conference on Electronic Business: Smart Cities, ICEB 2017

**Issue date:** 2017

**Publication year:** 2017

**Pages:** 67-71

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 17th International Conference on Electronic Business: Smart Cities, ICEB 2017

**Conference date:** December 4, 2017 - December 8, 2017

**Conference location:** Al Barsha, Dubai, United arab emirates

**Conference code:** 142153

**Publisher:** International Consortium for Electronic Business

**Abstract:** A smart hotel is an intelligent hotel with a range of information technologies working together to let the customers have an honorable and convenient vacation environment. It allows customers to have a profound image about not only the hotel, but also the city and the country. Furthermore, it can increase the customer loyalty and repurchase rate as well. Thus, developing a smart hotel is critical for the hospitality industry in practice. This research presents a case study of a new five star intelligent hotel-Fleur de Chine Hotel at Sun Moon Lake in Taiwan. It describes how they built their digital hotel and virtual housekeeper service platform. Through the networked facilities and integrated information systems, people could get relevant information easily and efficiently. In addition, this smart system could provide hotel customers with the housekeeper service similar to a very important person (VIP) room or a presidential suite. © 2017 International Consortium for Electronic Business. All right reserved.

**Number of references:** 32

**Main heading:** Hotels

**Controlled terms:** Customer satisfaction - Electronic commerce - Electronics industry - Sales - Smart city

**Uncontrolled terms:** Customer loyalty - Hospitality industry - Hotel managements - Integrated information system - Service innovation - Service platforms - Smart System - Sun moons

**Classification code:** 402.2 Public Buildings

Public Buildings

- 723.5 Computer Applications

Computer Applications

**Compendex references:** YES

**Database:** Compendex

Compilation and indexing terms, Copyright 2021 Elsevier Inc.

**Data Provider:** Engineering Village

## 17. Constructing media-based enterprise networks for stock market risk analysis

**Accession number:** 20185006220106

**Authors:** Xing, Rong (1); Dong, Shengxin (1); Wang, Qinyu (2); Li, Qing (1); Luo, Xubin (1); Duan, Jiang (1)

**Author affiliation:** (1) Southwestern University of Finance and Economics, China; (2) Citigroup Services and Technology (China) Limited, China

**Corresponding author:** Xing, Rong(18085113319@163.com)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2017-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 17th International Conference on Electronic Business: Smart Cities, ICEB 2017

**Issue date:** 2017

**Publication year:** 2017

**Pages:** 59-66

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 17th International Conference on Electronic Business: Smart Cities, ICEB 2017

**Conference date:** December 4, 2017 - December 8, 2017

**Conference location:** Al Barsha, Dubai, United arab emirates

**Conference code:** 142153

**Publisher:** International Consortium for Electronic Business

**Abstract:** Stock comovement analysis is essential to understand the mechanism of stock markets. Previous studies focus on the comovement from the perspectives of fundamentals or preferences of investors. In this article, we propose a framework to explore the comovements of stocks in terms of their relationships in Web media. This is achieved by constructing media-based enterprise networks in terms of the co-exposure in news reports of stocks and mutual attentions among them. Our experiments based on CSI 300 listed firms show the significant comovements of stocks brought out by their behaviors in Web media. Furthermore, utilizing media based enterprise networks can help us identify the most influential firms which can stir up the stock markets. © 2017 International Consortium for Electronic Business. All right reserved.

**Number of references:** 18

**Main heading:** Investments

**Controlled terms:** Electronic commerce - Electronics industry - Financial markets - Risk analysis - Risk assessment - Smart city - Social networking (online)

**Uncontrolled terms:** Co movements - Enterprise networks - News reports - Social media - Web media

**Classification code:** 723 Computer Software, Data Handling and Applications

Computer Software, Data Handling and Applications

- 723.5 Computer Applications

Computer Applications

- 914.1 Accidents and Accident Prevention

Accidents and Accident Prevention

- 922 Statistical Methods

Statistical Methods

**Funding Details:** Number: 71401139,71671141,71671141,71401139, Acronym: NSFC, Sponsor: National Natural Science Foundation of China; Number: JBK 170505,JBK 171113,JBK120505,JBK151128, Acronym: -, Sponsor: Fundamental Research Funds for the Central Universities;

**Funding text:** This work has been supported by grants awarded to Dr. Qing Li from National Natural Science Foundation of China (NSFC) (71671141,71401139), and Fundamental Research Funds for the Central Universities (JBK 171113, JBK 170505, JBK151128, JBK120505).

**Compendex references:** YES

**Database:** Compendex

Compilation and indexing terms, Copyright 2021 Elsevier Inc.

**Data Provider:** Engineering Village

## 18. Senior citizens' self-efficacy for ICT use: The influence of gender, social influence and social support

**Accession number:** 20185006220128

**Authors:** Guan, Chong (1); Wei, Jie (1); Chan, Calvin M.L. (1); Chia, Allan B.H. (1)

**Author affiliation:** (1) Singapore University of Social Sciences, Singapore, Singapore

**Corresponding author:** Chia, Allan B.H.(allanchiab@uss.edu.sg)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2017-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 17th International Conference on Electronic Business: Smart Cities, ICEB 2017

**Issue date:** 2017

**Publication year:** 2017

**Pages:** 234-240

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 17th International Conference on Electronic Business: Smart Cities, ICEB 2017

**Conference date:** December 4, 2017 - December 8, 2017

**Conference location:** Al Barsha, Dubai, United arab emirates

**Conference code:** 142153

**Publisher:** International Consortium for Electronic Business

**Abstract:** As the world becomes more digitally connected and most countries have longer life expectancy and an ageing population, it is critical to understand the factors affecting ICT adoption among the senior citizens. Previous researchers examined how various factors influence ICT adoption among senior citizens, including age, degree of functional impairment, financial resources, education level etc. In addition to the demographic factors, psychological factors such as computer self-efficacy (CSE) is also crucial in understanding ICT adoption among seniors. Building upon the classic psychological theory of self-efficacy, we proposed that CSE is an important mediating factor between social influence, social support and usage. We further posit that gender moderates the effect on social support and CSE among senior citizens. Specifically, the effects on women are augmented. To test the developed hypotheses, we conducted a person-administered survey comprising 503 Singaporeans aged between 55 and 75 years of age. Collected data were analysed using partial least squares. The results confirmed the proposed hypotheses and demonstrated that gender, social influence, social support and CSE are crucial in understanding ICT usage amongst seniors. Specific insights on the use of ICT among senior citizens are revealed. © 2017 International Consortium for Electronic Business. All right reserved.

**Number of references:** 33

**Main heading:** Economic and social effects

**Controlled terms:** Electronic commerce - Electronics industry - Least squares approximations - Smart city

**Uncontrolled terms:** ICT use - Self efficacy - Senior citizens - Social influence - Social support

**Classification code:** 723.5 Computer Applications

Computer Applications

- 921.6 Numerical Methods

Numerical Methods

- 971 Social Sciences

Social Sciences

**Numerical data indexing:** Age 5.50e+01yr to 7.50e+01yr

**Compendex references:** YES

**Database:** Compendex

Compilation and indexing terms, Copyright 2021 Elsevier Inc.

**Data Provider:** Engineering Village

## 19. Fintech trends relationships research: A bibliometric citation meta-analysis

**Accession number:** 20185006220112

**Authors:** Wu, Pei-Shan (1)

**Author affiliation:** (1) National Chengchi University, Taiwan

**Corresponding author:** Wu, Pei-Shan(angela07311@gmail.com)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2017-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 17th International Conference on Electronic Business: Smart Cities, ICEB 2017

**Issue date:** 2017

**Publication year:** 2017

**Pages:** 99-105

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 17th International Conference on Electronic Business: Smart Cities, ICEB 2017

**Conference date:** December 4, 2017 - December 8, 2017

**Conference location:** Al Barsha, Dubai, United arab emirates

**Conference code:** 142153

**Publisher:** International Consortium for Electronic Business

**Abstract:** This paper presents a review among how scholarly research on Fintech trends relationships has evolved over the past years by conducting a bibliometric citation. This literature analysis was based on the publication journals and articles in the ISI Web of Science databases. We show the impact of cited journals, key articles and



outline possible future research avenues. Also, we map how the top publications are related in terms of their citation relationships and identify six different research fields, or lines of enquiry: (1) Payments, (2) Insurance, (3) Deposit & Lending, (4) Capital Raising, (5) Investment Management, (6) Market Provisioning. The study explores rankings of fintech-related journals list the first six journals had contributed eighty percentage of published papers, and concerned with the roles of information and communication technologies in the economy and society. Focusing on the research frontiers in finance, our paper identifies emerging research trends. We highlight possible pathways for researchers to build on existing knowledge and pursue opportunities for innovative and exciting new research contributing to an expansion of the research frontiers. © 2017 International Consortium for Electronic Business. All right reserved.

**Number of references:** 20

**Main heading:** Fintech

**Controlled terms:** Analog to digital conversion - Electronic commerce - Electronics industry - Investments - Service industry - Smart city

**Uncontrolled terms:** Bibliometric - Economy and society - Financial services industries - Information and Communication Technologies - Investment management - Literature analysis - Research frontiers - Scholarly research

**Classification code:** 723.5 Computer Applications

Computer Applications

- 912 Industrial Engineering and Management

Industrial Engineering and Management

**Compendex references:** YES

**Database:** Compendex

Compilation and indexing terms, Copyright 2021 Elsevier Inc.

**Data Provider:** Engineering Village

## 20. Principles of increasing the interactivity of mobile applications of smart parking

**Accession number:** 20185006220121

**Authors:** Hung, Wei-Hsi (1); Chuang, Kai-Ju (1, 2); Liao, Yen-Chieh (3)

**Author affiliation:** (1) National Chengchi University, Taiwan; (2) Hsuan Chuang University, Taiwan; (3) National Chung Chang University, Taiwan

**Corresponding author:** Hung, Wei-Hsi(fhung@nccu.edu.tw)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2017-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 17th International Conference on Electronic Business: Smart Cities, ICEB 2017

**Issue date:** 2017

**Publication year:** 2017

**Pages:** 186-191

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 17th International Conference on Electronic Business: Smart Cities, ICEB 2017

**Conference date:** December 4, 2017 - December 8, 2017

**Conference location:** Al Barsha, Dubai, United arab emirates

**Conference code:** 142153

**Publisher:** International Consortium for Electronic Business

**Abstract:** Mobile applications (APPs) are adopted and downloaded widely around the world. Those APPs are those for examples linking to enterprise applications, management information systems, education systems, and healthcare systems. Thus, the importance of potential development APPs is hung. The objective of this study is to elicit design principles for ensuring the interactivity of smart parking APPs to be used especially in the city. This study conducted a systematic review on the past literature of interface design and case studies on seven smart parking APPs on the market in order to develop a design framework for smart parking APPs, which include a list of design principles. Then, four experts of APP design were involved in a series of interviews to improve the readability and usability of the framework. Finally, this study identified 11 principles for improving the interactivity of smart parking APPs, which are useful to the situation when users need to interact with a smart phone urgently in a small-touch-screen environment. © 2017 International Consortium for Electronic Business. All right reserved.

**Number of references:** 20

**Main heading:** Information management

**Controlled terms:** Electronic commerce - Electronics industry - Medical computing - mHealth - Mobile computing - Smart city - Smartphones - Touch screens

**Uncontrolled terms:** Case-studies - Enterprise applications - Health-care system - Interactivity - Interface designs - Mobile applications - Smart parking - Systematic Review

**Classification code:** 718.1 Telephone Systems and Equipment

Telephone Systems and Equipment

- 722.2 Computer Peripheral Equipment

Computer Peripheral Equipment

- 723.5 Computer Applications

Computer Applications

**Compendex references:** YES

**Database:** Compendex

Compilation and indexing terms, Copyright 2021 Elsevier Inc.

**Data Provider:** Engineering Village

## 21. Predicting the mobile consumer purchase behavior using quantified visual preferences

**Accession number:** 20185006220120

**Authors:** Yu, Youngjoon (1); Ahn, Jae-Hyeon (1)

**Author affiliation:** (1) KAIST, Korea, Republic of

**Corresponding author:** Ahn, Jae-Hyeon(jahn@business.kaist.ac.kr)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2017-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 17th International Conference on Electronic Business: Smart Cities, ICEB 2017

**Issue date:** 2017

**Publication year:** 2017

**Pages:** 173-185

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 17th International Conference on Electronic Business: Smart Cities, ICEB 2017

**Conference date:** December 4, 2017 - December 8, 2017

**Conference location:** Al Barsha, Dubai, United arab emirates

**Conference code:** 142153

**Publisher:** International Consortium for Electronic Business

**Abstract:** Most mobile consumers make a decision about the product in a split second. The decision making in the mobile environment is surely faster than in front of the desktop. This paper claims that the decision-making in the mobile shopping is highly depending on the product's first impression and their visual preference. By predicting the human's visual preference based on the image processing model of perceived colorfulness and perceived visual complexity, this study tested an S-O-R path model from visual preference to consumer's bookmarking and purchase intention via age and gender as moderators. With the controlled laboratory experiment, we substantiated our predicting image preference model. Further, a plan for a real data based analysis is proposed to validate the congruity of our model with the Korean mobile shopping company later. © 2017 International Consortium for Electronic Business. All right reserved.

**Number of references:** 75

**Main heading:** Consumer behavior

**Controlled terms:** Color image processing - Decision making - Electronic commerce - Electronics industry - Forecasting - Image analysis - Image processing - Purchasing - Smart city

**Uncontrolled terms:** Bookmarking - Colorfulness - First impressions - Visual complexity - Visual preference

**Classification code:** 723.5 Computer Applications

Computer Applications

- 741.1 Light/Optics

Light/Optics

- 912.2 Management

Management

- 931.3 Atomic and Molecular Physics

Atomic and Molecular Physics

**Funding Details:** Number: -, Acronym: KAIST, Sponsor: Korea Advanced Institute of Science and Technology;

**Funding text:** This research was supported by the funding from the research center for hyper-connected society in KAIST

**Compendex references:** YES

**Database:** Compendex  
 Compilation and indexing terms, Copyright 2021 Elsevier Inc.  
**Data Provider:** Engineering Village

## 22. Replication attack detection in mobile wireless sensor network with LEACH-ME routing protocol

**Accession number:** 20185006220124  
**Authors:** Chien, Da-Chun (1); Ku, Cheng-Yuan (1); Huang, Shu-Rong (1)  
**Author affiliation:** (1) National Chiao Tung University, Taiwan  
**Corresponding author:** Ku, Cheng-Yuan(cooper.c.y.ku@gmail.com)  
**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)  
**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)  
**Volume:** 2017-December  
**Part number:** 1 of 1  
**Issue title:** Proceedings of the 17th International Conference on Electronic Business: Smart Cities, ICEB 2017  
**Issue date:** 2017  
**Publication year:** 2017  
**Pages:** 208-214  
**Language:** English  
**ISSN:** 16830040

**Document type:** Conference article (CA)  
**Conference name:** 17th International Conference on Electronic Business: Smart Cities, ICEB 2017  
**Conference date:** December 4, 2017 - December 8, 2017  
**Conference location:** Al Barsha, Dubai, United arab emirates  
**Conference code:** 142153

**Publisher:** International Consortium for Electronic Business

**Abstract:** Because the Wireless Sensor Network (WSN) nodes are low-cost devices, attackers may capture some nodes in this network and then duplicate these nodes to eavesdrop the transmitted messages or even control the network gradually without difficulty. This is the so-called node replication attack. This type of attacks could cause the huge threat to information security of WSNs. Therefore, in this paper, we would like to suggest a detection approach which can offer good performance but with higher energy consumption. Hence, it can provide an alternative solution for some specific applications that need better precision but do not care energy or lifespan too much. © 2017 International Consortium for Electronic Business. All right reserved.

**Number of references:** 14

**Main heading:** Network security

**Controlled terms:** Computer network performance evaluation - Electronic commerce - Energy utilization - Internet protocols - Leaching - Network routing - Power management (telecommunication) - Routing protocols - Sensor nodes - Smart city

**Uncontrolled terms:** Alternative solutions - Attack detection - Detection approach - Life span - Low-cost devices - Mobile wireless sensor network - Performance evaluation

**Classification code:** 525.3 Energy Utilization

Energy Utilization

- 722 Computer Systems and Equipment

Computer Systems and Equipment

- 723 Computer Software, Data Handling and Applications

Computer Software, Data Handling and Applications

- 723.5 Computer Applications

Computer Applications

- 802.3 Chemical Operations

Chemical Operations

**Funding Details:** Number: 106-2410-H-009-025-MY3, Acronym: MOST, Sponsor: Ministry of Science and Technology, Taiwan;

**Funding text:** This work is partially supported by MOST 106-2410-H-009-025-MY3.

**Compendex references:** YES

**Database:** Compendex

Compilation and indexing terms, Copyright 2021 Elsevier Inc.

**Data Provider:** Engineering Village

## 23. Adopting IoT technology to optimize intelligent water management

**Accession number:** 20185006220103

**Authors:** Li, Eldon Y. (1); Wang, Wen-Hsin (1); Hsu, Ying-Sung (2)

**Author affiliation:** (1) National Chengchi University, Taiwan; (2) FengChia University, Taiwan

**Corresponding author:** Wang, Wen-Hsin(alice.ntu@gmail.com)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2017-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 17th International Conference on Electronic Business: Smart Cities, ICEB 2017

**Issue date:** 2017

**Publication year:** 2017

**Pages:** 38-46

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 17th International Conference on Electronic Business: Smart Cities, ICEB 2017

**Conference date:** December 4, 2017 - December 8, 2017

**Conference location:** Al Barsha, Dubai, United arab emirates

**Conference code:** 142153

**Publisher:** International Consortium for Electronic Business

**Abstract:** Intelligent water management (IWM) has been used to study the supply and demand of tap water in Taiwan. This research aims to enhance existing and future water utility management. Leveraging the supervisory control and data acquisition (SCADA) technology that connects sensors to a distributive infrastructure, the system detects leaks, assesses quality, monitors discharge, and manages assets of water utility. In this paper, we propose a prototype of urban intelligent water system by installing an intelligent water meter. Three steps are undertaken to demonstrate the IWM: 1) choose the way of data transmission; 2) establish communication equipment and generate cloud database; and 3) apply big data analyses and value-added applications. By intelligently managing the water supply system, it generates benefits of saving water, saving energy and optimizing water resources dispatching. © 2017 International Consortium for Electronic Business. All right reserved.

**Number of references:** 29

**Main heading:** Internet of things

**Controlled terms:** Big data - Data acquisition - Data communication equipment - Electronic commerce -

Electronics industry - Quality control - Smart city - Water management - Water supply - Water supply systems

**Uncontrolled terms:** Cloud database - Communication equipments - Saving energy - Supervisory control and data acquisition - Supply and demand - Technology adoption - Value added applications - Water utility

**Classification code:** 446.1 Water Supply Systems

Water Supply Systems

- 723 Computer Software, Data Handling and Applications

Computer Software, Data Handling and Applications

- 913.3 Quality Assurance and Control

Quality Assurance and Control

**Funding Details:** Number: No.106-2410-H-004 -052, Acronym: -, Sponsor: -, Number: -, Acronym: MOEA, Sponsor: Ministry of Economic Affairs;

**Funding text:** The research is partially supported by Ministry of Science and Technology in Taiwan (Grant No.106-2410-H-004 -052) and the Water Resources Agency, MOEA, Taiwan, R.O.C.

**Compendex references:** YES

**Database:** Compendex

Compilation and indexing terms, Copyright 2021 Elsevier Inc.

**Data Provider:** Engineering Village

## 24. Curbing shopping cart abandonment in C2C markets - An uncertainty reduction approach

**Accession number:** 20185006220142

**Authors:** Tang, Heng (1); Lin, Xiaowan (1)

**Author affiliation:** (1) Faculty of Business Administration, University of Macau, Macau SAR, Brazil

**Corresponding author:** Tang, Heng(hengtang@umac.mo)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2017-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 17th International Conference on Electronic Business: Smart Cities, ICEB 2017

**Issue date:** 2017

**Publication year:** 2017

**Pages:** 322-324

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 17th International Conference on Electronic Business: Smart Cities, ICEB 2017

**Conference date:** December 4, 2017 - December 8, 2017

**Conference location:** Al Barsha, Dubai, United arab emirates

**Conference code:** 142153

**Publisher:** International Consortium for Electronic Business

**Number of references:** 13

**Compendex references:** YES

**Database:** Compendex

Compilation and indexing terms, Copyright 2021 Elsevier Inc.

**Data Provider:** Engineering Village

## 25. Preface

**Accession number:** 20185006220098

**Authors:** Li, Eldon Y. (1, 2); Shen, Kathy Ning (3)

**Author affiliation:** (1) National Chengchi University, Taiwan; (2) Asia University, Taiwan; (3) University of Wollongong, Dubai, United Arab Emirates

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2017-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 17th International Conference on Electronic Business: Smart Cities, ICEB 2017

**Issue date:** 2017

**Publication year:** 2017

**Pages:** ii-iii

**Language:** English

**ISSN:** 16830040

**Document type:** Journal article (JA)

**Conference name:** 17th International Conference on Electronic Business: Smart Cities, ICEB 2017

**Conference date:** December 4, 2017 - December 8, 2017

**Conference location:** Al Barsha, Dubai, United arab emirates

**Conference code:** 142153

**Publisher:** International Consortium for Electronic Business

**Database:** Compendex

Compilation and indexing terms, Copyright 2021 Elsevier Inc.

**Data Provider:** Engineering Village

## 26. Proceedings of the International Conference on Electronic Business (ICEB)

**Accession number:** 20185006220143

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2017-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 17th International Conference on Electronic Business: Smart Cities, ICEB 2017

**Issue date:** 2017

**Publication year:** 2017

**Language:** English

**ISSN:** 16830040

**Document type:** Conference proceeding (CP)

**Conference name:** 17th International Conference on Electronic Business: Smart Cities, ICEB 2017

**Conference date:** December 4, 2017 - December 8, 2017

**Conference location:** Al Barsha, Dubai, United arab emirates

**Conference code:** 142153

**Publisher:** International Consortium for Electronic Business

**Abstract:** The proceedings contain 44 papers. The topics discussed include: a co-citation bibliometric analysis of crowdsourcing research; a crowdsourcing mode of tourism customization based on sharing economy; a historical perspective on decentralization and service delivery for socioeconomic development in Papua New Guinea; a study of conflict and resistant behaviors in the implementation of the ecosystem platform; adopting IoT technology to optimize intelligent water management; analyzing big data projects using Github and JavaScript repositories; and constructing media-based enterprise networks for stock market risk analysis.

**Abstract type:** (Edited Abstract)

**Page count:** 335

**Database:** Compendex

Compilation and indexing terms, Copyright 2021 Elsevier Inc.

**Data Provider:** Engineering Village

## 27. Problems of data science in organizations: An explorative qualitative analysis of business professionals' concerns

**Accession number:** 20185006220122

**Authors:** Salminen, Joni (1, 2); Milencovic, Milica (2); Jansen, Bernard J. (1)

**Author affiliation:** (1) Qatar Computing Research Institute, HBKU, Qatar; (2) Turku School of Economics, Qatar

**Corresponding author:** Salminen, Joni([jsalminen@hbku.edu.qa](mailto:jsalminen@hbku.edu.qa))

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2017-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 17th International Conference on Electronic Business: Smart Cities, ICEB 2017

**Issue date:** 2017

**Publication year:** 2017

**Pages:** 192-201

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 17th International Conference on Electronic Business: Smart Cities, ICEB 2017

**Conference date:** December 4, 2017 - December 8, 2017

**Conference location:** Al Barsha, Dubai, United arab emirates

**Conference code:** 142153

**Publisher:** International Consortium for Electronic Business

**Abstract:** In this exploratory study, we analyze 150 comments from 79 participants, the roles ranging from top management and other business professionals to software developers, to identify key problems of employing data science in organizations. The comments are retrieved from a publicly available LinkedIn discussion thread in which the participants are discussing the problems relating to data science implementation and management. We use qualitative coding to analyze the comments and find issues from several management-related categories, including (a) job descriptions and recruitment, (b) leadership, (c) economical aspects, and (d) clarity about data use and goals. The findings also highlight that 'data scientist' is not just a one role, but combination of many different roles, including analyst, scientist, programmer, and business person. The multiplicity of skills required hinders the recruitment of such individuals, and the existing organizational structures are not always compatible with the multidisciplinary nature of data scientists. We conclude with recommendations to address these issues. © 2017 International Consortium for Electronic Business. All right reserved.

**Number of references:** 21

**Main heading:** Data Science

**Controlled terms:** Electronic commerce - Electronics industry - Employment - Job analysis - Management - Smart city

**Uncontrolled terms:** Analytics - Business professionals - Economical aspects - Exploratory studies - Organizational structures - Problems - Qualitative analysis - Software developer

**Classification code:** 723.5 Computer Applications

Computer Applications

- 912.2 Management

Management

**Compendex references:** YES

**Database:** Compendex

Compilation and indexing terms, Copyright 2021 Elsevier Inc.

**Data Provider:** Engineering Village

## 28. Blockchain technology acceptance in electronic medical record system

**Accession number:** 20185006220105

**Authors:** Wanitcharakkhakul, Lakkana (1); Rotchanakitumnuai, Siriluck (1)

**Author affiliation:** (1) Thammasat University, Thailand

**Corresponding author:** Wanitcharakkhakul, Lakkana(wk.lakkana@gmail.com)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2017-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 17th International Conference on Electronic Business: Smart Cities, ICEB 2017

**Issue date:** 2017

**Publication year:** 2017

**Pages:** 53-58

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 17th International Conference on Electronic Business: Smart Cities, ICEB 2017

**Conference date:** December 4, 2017 - December 8, 2017

**Conference location:** Al Barsha, Dubai, United arab emirates

**Conference code:** 142153

**Publisher:** International Consortium for Electronic Business

**Abstract:** Blockchain Technology is the advance information technology in medical sector that need secure data sharing among related parties in the network. The investigating factors have impacts on electronic medical record Blockchain technology adoption. Online questionnaire was developed from literature with performance expectation, trust, and risk concepts. Online survey sent to patients and medical personnel. The feedback respondents were 149. The research results showed that the most influential factor affecting the acceptance is performance expectation which includes the recognition of technological benefits and relative advantages. Trust factor has impact on acceptance and low risk has positive impact of the Blockchain technology. © 2017 International Consortium for Electronic Business. All right reserved.

**Number of references:** 24

**Main heading:** Medical information systems

**Controlled terms:** Blockchain - Data Sharing - Electronic commerce - Electronics industry - Medical computing - Smart city - Surveys

**Uncontrolled terms:** Electronic medical record - Electronic medical record system - Health informations - Influential factors - Online questionnaire - Performance expectations - Technology acceptance - Technology adoption

**Classification code:** 723.5 Computer Applications

Computer Applications

- 903 Information Science

Information Science

**Compendex references:** YES

**Database:** Compendex

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**Data Provider:** Engineering Village

## 29. Measuring the quality of financial electronic payment system: Combined with fuzzy AHP and fuzzy TOPSIS

**Accession number:** 20185006220118

**Authors:** Chen, Li-Ru (1); Liu, Kai-Hao (1); Lai, Fang-Pin (2); Chang, Shao-Shiun (1); Lee, Kou-Yi (2)

**Author affiliation:** (1) National Changhua University of Education, Taiwan; (2) National Chin-Yi University of Technology, Taiwan

**Corresponding author:** Liu, Kai-Hao(tw98@ms51.hinet.net)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2017-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 17th International Conference on Electronic Business: Smart Cities, ICEB 2017

**Issue date:** 2017

**Publication year:** 2017

**Pages:** 146-160

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 17th International Conference on Electronic Business: Smart Cities, ICEB 2017

**Conference date:** December 4, 2017 - December 8, 2017

**Conference location:** Al Barsha, Dubai, United arab emirates

**Conference code:** 142153

**Publisher:** International Consortium for Electronic Business

**Abstract:** The study aims to apply Fuzzy AHP in TOPSIS to discuss the key factors that foster the success of current third-party online payment platforms. This study organized the quality measurements into four categories and eleven sub-categories. The AHP in TOPSIS is applied to calculate the weighted averages of all categories and sub-categories to measure the quality of third-party online payment platforms. This study finds that "safety quality" is the most emphasized category, "system quality" is the second, "communication quality" is the third, and "service quality" is the least emphasized. © 2017 International Consortium for Electronic Business. All right reserved.

**Number of references:** 93

**Main heading:** Electronics industry

**Controlled terms:** Electronic commerce - Hierarchical systems - Smart city

**Uncontrolled terms:** Communication quality - E-payments - Electronic payment systems - Fuzzy AHP - FUZZY TOPSIS - Quality measurements - Safety qualities - Weighted averages

**Classification code:** 723.5 Computer Applications

Computer Applications

- 961 Systems Science

Systems Science

**Compendex references:** YES

**Database:** Compendex

Compilation and indexing terms, Copyright 2021 Elsevier Inc.

**Data Provider:** Engineering Village

### **30. Integrating innovation diffusion theory and the technology acceptance model: The adoption of blockchain technology from business managers' perspective**

**Accession number:** 20185006220137

**Authors:** Lou, Antonio T.F. (1); Li, Eldon Y. (1)

**Author affiliation:** (1) National Chengchi University, Taiwan

**Corresponding author:** Li, Eldon Y.(eli@nccu.edu.tw)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2017-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 17th International Conference on Electronic Business: Smart Cities, ICEB 2017

**Issue date:** 2017

**Publication year:** 2017

**Pages:** 299-302

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 17th International Conference on Electronic Business: Smart Cities, ICEB 2017

**Conference date:** December 4, 2017 - December 8, 2017

**Conference location:** Al Barsha, Dubai, United arab emirates

**Conference code:** 142153

**Publisher:** International Consortium for Electronic Business

**Abstract:** Financial technology (FinTech) is the new business model and technology which aims to compete with traditional financial services and blockchain is one of most famous technology use of FinTech. Blockchain is a type of distributed, electronic database (ledger) which can hold any information (e.g. records, events, transactions) and can set rules on how this information is updated. The most well-known application of blockchain is bitcoin, which is a kind of cryptocurrencies. But it can also be used in many other financial and commercial applications. A prominent example



is smart contracts, for instance as offered in Ethereum. A contract can execute a transfer when certain events happen, such as payment of a security deposit, while the correct execution is enforced by the consensus protocol. The purpose of this paper is to explore the research and application landscape of blockchain technology acceptance by following a more comprehensive approach to address blockchain technology adoption. This research is to propose a unified model integrating Innovation Diffusion Theory (IDT) model and Technology Acceptance Model (TAM) to investigate continuance intention to adopt blockchain technology. © 2017 International Consortium for Electronic Business. All right reserved.

**Number of references:** 25

**Main heading:** Blockchain

**Controlled terms:** Cryptocurrency - Diffusion - Electronics industry - Fintech - Smart city

**Uncontrolled terms:** Commercial applications - Continuance intentions - Electronic database - Financial technology (FinTech) - Innovation diffusion theory - Research and application - Technology acceptance - Technology acceptance model

**Classification code:** 723.5 Computer Applications

Computer Applications

**Compendex references:** YES

**Database:** Compendex

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**Data Provider:** Engineering Village

### 31. The multi-channel E-service quality for Thai electronic tourism

**Accession number:** 20185006220132

**Authors:** Rotchanakitumnuai, Siriluck (1)

**Author affiliation:** (1) Thammasat Business School, Thammasat University, Thailand

**Corresponding author:** Rotchanakitumnuai, Siriluck(siriluck@tbs.tu.ac.th)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2017-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 17th International Conference on Electronic Business: Smart Cities, ICEB 2017

**Issue date:** 2017

**Publication year:** 2017

**Pages:** 264-271

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 17th International Conference on Electronic Business: Smart Cities, ICEB 2017

**Conference date:** December 4, 2017 - December 8, 2017

**Conference location:** Al Barsha, Dubai, United arab emirates

**Conference code:** 142153

**Publisher:** International Consortium for Electronic Business

**Abstract:** This research identifies the multi-channel electronic service quality of Thai e-tourism including various online channels such as websites, social networks, smartphones, and Internet of Things, and their impact on cognitive image. The analysis of the factors of electronic tourism based on the survey from Thai and foreign tourists, the service quality of multichannel E-tourism consists of 8 factors: tangibility, responsiveness, reliability, trust, accessibility, ease of use, real time IoT, and security. The results of the study showed that the tourists considered the service quality via the Internet of Things technology important because of immediate responsiveness through devices and applications which can create cognitive and affective image. © 2017 International Consortium for Electronic Business. All right reserved.

**Number of references:** 28

**Main heading:** Electronics industry

**Controlled terms:** Electronic commerce - Internet of things - Quality of service - Reliability analysis - Smart city - Tourism

**Uncontrolled terms:** Affective images - Cognitive image - E-service quality - Electronic service qualities - eTourism - Internet of things technologies - Online channels - Service Quality

**Classification code:** 723 Computer Software, Data Handling and Applications

Computer Software, Data Handling and Applications

- 723.5 Computer Applications

Computer Applications

**Funding Details:** Number: -, Acronym: TU, Sponsor: Thammasat University; Number: -, Acronym: TU, Sponsor: Thammasat University;

**Funding text:** The author gratefully acknowledges the financial support by Thammasat University under the TU Research Scholar Budget 2016.

**Compendex references:** YES

**Database:** Compendex

Compilation and indexing terms, Copyright 2021 Elsevier Inc.

**Data Provider:** Engineering Village

## 32. The influence and countermeasures of technical barriers to trade on the export of electromechanical products in China

**Accession number:** 20190906545288

**Authors:** Shuai, Qinghong (1); Pan, Xingbei (1); Xu, Yingliu (1); Tan, Shangyu (1); Wang, Weiting (1)

**Author affiliation:** (1) Southwestern University of Finance and Economics, China

**Corresponding author:** Pan, Xingbei(945490485@qq.com)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2018-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 18th International Conference on Electronic Business: AI and Smart Tourism, ICEB 2018

**Issue date:** 2018

**Publication year:** 2018

**Pages:** 654-664

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 18th International Conference on Electronic Business, ICEB 2018

**Conference date:** December 2, 2018 - December 6, 2018

**Conference location:** Guangxi, China

**Conference code:** 145276

**Publisher:** International Consortium for Electronic Business

**Abstract:** Since the entry of China into WTO, the increasingly active foreign trade activities of China have played a huge role in promoting the economic growth and development of our country. At the same time, TBT (Technical barriers to Trade) has developed rapidly and become a non-tariff barrier for the export of Chinese foreign trade enterprises. As a result, the export of mechanical and electrical products in China has been greatly affected by the TBT of importing countries. In this paper, the current situation of technical barriers to trade in the export of mechanical and electrical products in China is first expounded, and the negative and positive effects of technical barriers to trade on the export of mechanical and electrical products of our country are analyzed. Then, based on the trade gravity model, using the panel data of 26 trading countries of China from 2008 to 2017, this paper empirically investigates the influence of importing country's TBT on the export of mechanical and electrical products of China, and analyzes the reasons why Chinese mechanical and electrical products export encounters with TBT according to the above research. According to these reasons, the corresponding countermeasures are put forward. © 2018 International Consortium for Electronic Business. All rights reserved.

**Number of references:** 7

**Main heading:** Tourism

**Controlled terms:** Electronic commerce - Electronics industry - International trade - Leisure industry

**Uncontrolled terms:** Current situation - Economic growths - Electro-mechanical products - Export - Foreign trade enterprise - Mechanical and electrical products - Non-tariff barriers - Technical barriers to trade

**Classification code:** 723.5 Computer Applications

Computer Applications

**Funding Details:** Number: SC13A007, Acronym: NPOPSS, Sponsor: National Planning Office of Philosophy and Social Science; Number: -, Acronym: CUFU, Sponsor: Central University of Finance and Economics; Number: XZX18011, Acronym: -, Sponsor: -;

**Funding text:** This work is partially sponsored by grant 14BGL186 of National Planning Office of Philosophy and Social Science, grant SC13A007 of Sichuan Philosophy and Social Science Planning Key Projects of China and grant XZX18011 of Project of Basic Scientific Research Operation of Central University of Southwestern University of Finance and Economics.

**Compendex references:** YES

**Database:** Compendex

Compilation and indexing terms, Copyright 2021 Elsevier Inc.

Data Provider: Engineering Village

### 33. Research on multifunctional integrated internet platforms

**Accession number:** 20185006220125

**Authors:** Zhang, Guoyou (1, 2); Jiang, Wenlong (2); Wang, Ying (3); Liu, Shang (2)

**Author affiliation:** (1) School of Economics and Finance, Xi'an JiaoTong University, China; (2) School of Business Administration, Tongling University, China; (3) School of Foreign Languages, Tongling University, China

**Corresponding author:** Zhang, Guoyou(11132612614@sina.com)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2017-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 17th International Conference on Electronic Business: Smart Cities, ICEB 2017

**Issue date:** 2017

**Publication year:** 2017

**Pages:** 215-221

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 17th International Conference on Electronic Business: Smart Cities, ICEB 2017

**Conference date:** December 4, 2017 - December 8, 2017

**Conference location:** Al Barsha, Dubai, United arab emirates

**Conference code:** 142153

**Publisher:** International Consortium for Electronic Business

**Abstract:** Throughout the development of China's Internet industry for more than 20 years, we can tease out three stages that can represent the trend of the times: the first stage can be called "the Portal Era" with the entire Internet industry dominated by portal websites. However, with several major portals' transitions after being unable to maintain effective operation of their profit model, the Portal Era came to an end. The second stage we call "Social Network Era", represented by Sina Microblog and WeChat. The former had successful transitions after several ups and downs and the latter is trending and promising. Also vigorously developing are various social websites and mobile apps. In the midst of the laughter of those entrepreneurs, the industry came to a third stage of development: The Era of E-business. These three stages did not appear one after another in chronological order. Social networks and e-business platforms in fact exist simultaneously with two groups of people hitting on different roads that lead to the same destination. Social networks and business platforms are now already inescapably intertwined with each other: social networks attract traffic for e-business platforms while e-business platforms provide profit in return. What is more, big Internet giants aim to create a "theme park" magnificently situated in the internet world to provide one-stop services like portal browsing, e-business, third party payment, social networking and entertainment. At the same time, social network leaders also gradually provided e-commerce and the third party payment service without willing to pave way for others. Longer ago, with the smart phones sweeping the world, the mobile internet era approached quietly while online and offline businesses increasingly converged. Therefore, we have reasons to believe that the next important stage of Internet development will be named as the era of multi-functional integrated Internet platforms. © 2017 International Consortium for Electronic Business. All right reserved.

**Main heading:** Social networking (online)

**Controlled terms:** Electronic commerce - Electronics industry - Entertainment industry - Portals - Profitability - Smart city - Smartphones - Websites

**Uncontrolled terms:** Business platforms - Chronological order - E-business platforms - Internet development - Internet industries - Mobile Internet - Multi-functional - Third party payments

**Classification code:** 718.1 Telephone Systems and Equipment

Telephone Systems and Equipment

- 723 Computer Software, Data Handling and Applications

Computer Software, Data Handling and Applications

- 723.5 Computer Applications

Computer Applications

- 911.2 Industrial Economics

Industrial Economics

**Numerical data indexing:** Age 2.00e+01yr

**Funding Details:** Number: AHSK11-12D336, Acronym: -, Sponsor: -; Number: 2012jyxm521, Acronym: -, Sponsor: -;

**Funding text:** This paper is supported by Foundation of Philosophy & Social Science of AH Province, China(AHSK11-12D336) and Teaching & Research Foundation on Higher Education of AH Province, China(2012jyxm521).

**Database:** Compendex  
Compilation and indexing terms, Copyright 2021 Elsevier Inc.  
**Data Provider:** Engineering Village

### 34. The impact of product variety and product diversification on inventory levels: From a distributor perspective

**Accession number:** 20185006220141

**Authors:** Chang, Hsin-Lu (1); Chou, Yen-Chun (1); Yang, Hui-Ching (1)

**Author affiliation:** (1) National Chengchi University, Taiwan

**Corresponding author:** Yang, Hui-Ching(105356005@nccu.edu.tw)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2017-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 17th International Conference on Electronic Business: Smart Cities, ICEB 2017

**Issue date:** 2017

**Publication year:** 2017

**Pages:** 317-320

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 17th International Conference on Electronic Business: Smart Cities, ICEB 2017

**Conference date:** December 4, 2017 - December 8, 2017

**Conference location:** Al Barsha, Dubai, United arab emirates

**Conference code:** 142153

**Publisher:** International Consortium for Electronic Business

**Abstract:** We have been working with W company, one of the largest electronic component distributors in Asia, to improve their warehouse management. Our research examines how product variety, the number of items demanded by customer plants through time  $i$  in month  $t$ , and product diversification, the proportion of total orders each item carried by customer plants  $i$  in month  $t$  through time, influence inventory levels. We argue that product variety and product diversification are positively related with inventory cost. We also argue that the impacts of product variety and product diversification on inventory cost are negatively moderated by IT integration. W company's inventory records come from many customers' orders at plant level across months. We thus aim to use panel data analysis to examine W company's product strategies and resulting inventory performance at each customer-plant level over 6 months. © 2017 International Consortium for Electronic Business. All right reserved.

**Number of references:** 11

**Main heading:** Electronics industry

**Controlled terms:** Electronic commerce - Sales - Smart city - Warehouses

**Uncontrolled terms:** eBusiness - Electronic component - Format instruction - Headers and footers - ICEB - Inventory performance - Product diversification - Warehouse management

**Classification code:** 694.4 Storage

Storage

- 723.5 Computer Applications

Computer Applications

**Numerical data indexing:** Age 5.00e-01yr

**Compendex references:** YES

**Database:** Compendex

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**Data Provider:** Engineering Village

### 35. An empirical study of the impact of social media on consumer music advocacy

**Accession number:** 20185006220134

**Authors:** Liu, Raymond R. (1); Zhang, Jurui (1)

**Author affiliation:** (1) University of Massachusetts, Boston, United States

**Corresponding author:** Liu, Raymond R.(raymond.liu@umb.edu)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2017-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 17th International Conference on Electronic Business: Smart Cities, ICEB 2017

**Issue date:** 2017

**Publication year:** 2017

**Pages:** 287-290

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 17th International Conference on Electronic Business: Smart Cities, ICEB 2017

**Conference date:** December 4, 2017 - December 8, 2017

**Conference location:** Al Barsha, Dubai, United arab emirates

**Conference code:** 142153

**Publisher:** International Consortium for Electronic Business

**Abstract:** Social media is widely used to build social network to promote product and service brands. It is very important to examine how people's online community activities and motivation influence their positive word-of-mouth behavior. In this study, we build a framework on how music consumers' consumption experience, consumer online engagement, and consumer online motivation influence their advocacy behavior. With more than 1000 respondents in a nation-wide survey, we have validated our measures, tested our model, and confirmed our hypotheses. Furthermore, we have discussed the theoretical and managerial implications. Finally, the limit of the research and future research are indicated. © 2017 International Consortium for Electronic Business. All right reserved.

**Number of references:** 16

**Main heading:** Consumer behavior

**Controlled terms:** Electronic commerce - Electronics industry - Motivation - Smart city - Social networking (online) - Surveys

**Uncontrolled terms:** Advocacy - Consumer online engagement - Empirical studies - Experience - Managerial implications - On-line communities - Product and services - Word of mouth

**Classification code:** 723 Computer Software, Data Handling and Applications

Computer Software, Data Handling and Applications

- 723.5 Computer Applications

Computer Applications

- 912.4 Personnel

Personnel

- 931.3 Atomic and Molecular Physics

Atomic and Molecular Physics

**Compendex references:** YES

**Database:** Compendex

Compilation and indexing terms, Copyright 2021 Elsevier Inc.

**Data Provider:** Engineering Village

### **36. Research on the third-party payment risk in the background of nets union clearing platform: The case of Alipay**

**Accession number:** 20190906545277

**Authors:** Shuai, Qinghong (1); Xie, Lu (1); Tang, Yu (1); Hu, Hongxin (1); Wang, Weiting (1)

**Author affiliation:** (1) Southwestern University of Finance and Economics, China

**Corresponding author:** Tang, Yu(18145136030@163.com)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2018-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 18th International Conference on Electronic Business: AI and Smart Tourism, ICEB 2018

**Issue date:** 2018

**Publication year:** 2018

**Pages:** 549-556

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 18th International Conference on Electronic Business, ICEB 2018

**Conference date:** December 2, 2018 - December 6, 2018

**Conference location:** Guangxi, China

**Conference code:** 145276

**Publisher:** International Consortium for Electronic Business

**Abstract:** Third-party payment has become an important part of the current payment method in China. However, there are many risks associated with the development of the third-party payment network. The establishment of the Nets Union in 2017 had a significant impact on the standardization of the entire third-party payment market. By further researching the third-party payment risk under the background of Nets Union Clearing Platform, combining with the empirical analysis for the case of Alipay, this paper constructs the third-party payment risk model by AHP and fuzzy comprehensive evaluation, then making some recommendations for Third-party payment risk control management. © 2018 International Consortium for Electronic Business. All rights reserved.

**Number of references:** 18

**Main heading:** Risk assessment

**Controlled terms:** Electronic commerce - Electronics industry - Leisure industry - Tourism

**Uncontrolled terms:** Alipay - Empirical analysis - Fuzzy comprehensive evaluation - Payment methods - Risk controls - Third party payments

**Classification code:** 723.5 Computer Applications

Computer Applications

- 914.1 Accidents and Accident Prevention

Accidents and Accident Prevention

**Funding Details:** Number: XZX18011, Acronym: -, Sponsor: -; Number: -, Acronym: CUFEE, Sponsor: Central University of Finance and Economics; Number: SC13A007, Acronym: NPOPSS, Sponsor: National Planning Office of Philosophy and Social Science;

**Funding text:** This work is partially sponsored by grant 14BGL186 of National Planning Office of Philosophy and Social Science, grant SC13A007 of Sichuan Philosophy and Social Science Planning Key Projects of China and grant XZX18011 of Project of Basic Scientific Research Operation of Central University of Southwestern University of Finance and Economics.

**Compendex references:** YES

**Database:** Compendex

Compilation and indexing terms, Copyright 2021 Elsevier Inc.

**Data Provider:** Engineering Village

### 37. A historical perspective on decentralisation and service delivery for socioeconomic development in Papua New Guinea

**Accession number:** 20185006220101

**Authors:** Bopi-Kerepa, George (1); Hamilton, John R. (2); Prideaux, Murray (1)

**Author affiliation:** (1) James Cook University, Townsville, Australia; (2) James Cook University, Cairns, Australia

**Corresponding author:** Hamilton, John R.(John.Hamilton@jcu.edu.au)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2017-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 17th International Conference on Electronic Business: Smart Cities, ICEB 2017

**Issue date:** 2017

**Publication year:** 2017

**Pages:** 20-28

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 17th International Conference on Electronic Business: Smart Cities, ICEB 2017

**Conference date:** December 4, 2017 - December 8, 2017

**Conference location:** Al Barsha, Dubai, United arab emirates

**Conference code:** 142153

**Publisher:** International Consortium for Electronic Business

**Abstract:** Papua New Guinea (PNG) has over 800 different language groups. Decentralisation in PNG continues to devolve from central government. This paper considers government service delivery through decentralisation mechanisms noting provincial and local level governments have often inadequately facilitated service delivery. The 2014 District Development Authorities enabled provincial governments to be bypassed, thus reducing bureaucratic and administrative wastage, eliminate cultural and tribal politics, and delivering basic socioeconomic services directly at the district level. © 2017 International Consortium for Electronic Business. All right reserved.

**Number of references:** 20

**Main heading:** Economic and social effects

**Controlled terms:** Electronic commerce - Electronic guidance systems - Electronics industry - Smart city

**Uncontrolled terms:** District development authority - Local level government - Papua New Guinea - Service delivery - Socio-economic development

**Classification code:** 723.5 Computer Applications

Computer Applications

- 971 Social Sciences

Social Sciences

**Funding text:** With funding of basic services controlled nationally and weak monitoring of public spending outcomes, local-level projects receive little of the financial support allocated (Filmer, Hammer & Pritchett, 2000; Filmer & Pritchett, 1999a, 1999b). For instance, Clarke (2015) and Feeny (2013) show that in PNG, central government increases in public spending on health bears little significance in reducing child/infant mortality; and that public spending on education has a very weak relationship to primary school completion rates. The DDA framework is embedded in the Medium Term Development Plans (MTDP). District Services Improvement Programme (DSIP) development grants directly fund districts projects – annually at ten million kina (K10m) per district. This district funding bypasses the PG system. The PGs also receives five million kina (K5m) per district within the province under the Provincial Services Improvement Program (PSIP). Annually provinces and districts receive between 12 to 15 per cent of the annual development budget.

**Compendex references:** YES

**Database:** Compendex

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**Data Provider:** Engineering Village

### 38. Impacts of users' extra-role behaviors on bright internet policy adoption

**Accession number:** 20185006220135

**Authors:** Zheng, Yujuan (1); Huang, Wei (1); Lee, Jae Kyu (2); Bao, Helen Xiaohui (3)

**Author affiliation:** (1) Xi'an Jiaotong University, Xi'an, Shaanxi, China; (2) Bright Internet Research Center, KAIST, Korea, Republic of; (3) University of Cambridge, United Kingdom

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2017-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 17th International Conference on Electronic Business: Smart Cities, ICEB 2017

**Issue date:** 2017

**Publication year:** 2017

**Pages:** 291-294

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 17th International Conference on Electronic Business: Smart Cities, ICEB 2017

**Conference date:** December 4, 2017 - December 8, 2017

**Conference location:** Al Barsha, Dubai, United arab emirates

**Conference code:** 142153

**Publisher:** International Consortium for Electronic Business

**Abstract:** Cyberspace security has been one top issue for a society. The Bright Internet (BI) based on the five principles offers a viable solution. The adoption of BI is important to the implementation of BI. A majority of the previous studies have mainly focused on access-policy violations and compliance in the past decades, while the extra-role behaviors have obtained insufficient attentions. Based on the theories of social control and accountability, this study examines the impacts of extra-role behaviors on BI policy adoption. The research findings have implications for future research and practice. © 2017 International Consortium for Electronic Business. All right reserved.

**Number of references:** 34

**Main heading:** Electronics industry

**Controlled terms:** Control theory - Electronic commerce - Smart city

**Uncontrolled terms:** Access policies - Accountability theory - Extra-role behaviors - Implications for futures - Internet policy - Policy adoption - Social control - Viable solutions

**Classification code:** 723.5 Computer Applications

Computer Applications

- 731.1 Control Systems

Control Systems

**Compendex references:** YES

**Database:** Compendex  
Compilation and indexing terms, Copyright 2021 Elsevier Inc.  
**Data Provider:** Engineering Village

### 39. Gender effect on E-commerce sales of experience gifts: Preliminary empirical findings

**Accession number:** 20185006220113

**Authors:** Salminen, Joni (1, 2); Seitz, Sarem (3); Jansen, Bernard J. (1); Salenius, Tommi (4)

**Author affiliation:** (1) Qatar Computing Research Institute, HBKU, Qatar; (2) Turku School of Economics, Qatar; (3) Otto-Friedrich University Bamberg, Germany; (4) Parcero Marketing Partners, Finland

**Corresponding author:** Salminen, Joni(jsalminen@hbku.edu.qa)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2017-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 17th International Conference on Electronic Business: Smart Cities, ICEB 2017

**Issue date:** 2017

**Publication year:** 2017

**Pages:** 106-115

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 17th International Conference on Electronic Business: Smart Cities, ICEB 2017

**Conference date:** December 4, 2017 - December 8, 2017

**Conference location:** Al Barsha, Dubai, United arab emirates

**Conference code:** 142153

**Publisher:** International Consortium for Electronic Business

**Abstract:** We analyze purchase data from 493 customers of an e-commerce store selling experience gifts to find how gender correlates with average purchase value, category of purchased products, and the use of discount codes. We find no significant differences for average purchase value or category of purchased products, but according to the data, women are more likely to use discount codes than are males. Ideas for further research concerning the gender effect on online shopping behavior are discussed. © 2017 International Consortium for Electronic Business. All right reserved.

**Number of references:** 24

**Main heading:** Consumer behavior

**Controlled terms:** Codes (symbols) - Electronic commerce - Electronics industry - Sales - Smart city

**Uncontrolled terms:** Empirical findings - Gender - Gender effects - Online consumer behavior - Online purchase behavior - Online shopping

**Classification code:** 723.2 Data Processing and Image Processing

Data Processing and Image Processing

- 723.5 Computer Applications

Computer Applications

- 931.3 Atomic and Molecular Physics

Atomic and Molecular Physics

**Compendex references:** YES

**Database:** Compendex

Compilation and indexing terms, Copyright 2021 Elsevier Inc.

**Data Provider:** Engineering Village

### 40. Research on user information behavior and hotspot prediction of WeChat official accounts based on Sootoo Network

**Accession number:** 20190906545278

**Authors:** Du, Shuyu (1); Yang, Bo (1); Chen, Wenjign (1); Xie, Pengfei (1); Dong, Hao (1)

**Author affiliation:** (1) Renmin University of China, Beijing, China

**Corresponding author:** Yang, Bo(yangbo\_ruc@126.com)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2018-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 18th International Conference on Electronic Business: AI and Smart Tourism, ICEB 2018



**Issue date:** 2018

**Publication year:** 2018

**Pages:** 557-569

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 18th International Conference on Electronic Business, ICEB 2018

**Conference date:** December 2, 2018 - December 6, 2018

**Conference location:** Guangxi, China

**Conference code:** 145276

**Publisher:** International Consortium for Electronic Business

**Abstract:** With the rapid development of mobile Internet, more and more attention has been paid to the new form of online social media represented by WeChat official accounts. However, these operators do not have clear ideas for enhancing WeChat heat, and clear and effective guidance on how to positively influence users' information behavior. Therefore, this paper combines the psychology neutral Stimulus-Response theory with the user information behavior research to construct a second-order user information behavior model. Then, through the official accounts data provided by the Sootoo Network, we collected a total of more than 10,000 push data of nine accounts from January to December, 2017. Based on the empirical research, we find the main influencing factors of user information behavior are identified, and construct a push hotspot prediction model. Also, this paper provides account operator with practical guidance significance in enhancing user information behavior. © 2018 International Consortium for Electronic Business. All rights reserved.

**Number of references:** 21

**Main heading:** Behavioral research

**Controlled terms:** Electronic commerce - Electronics industry - Forecasting - Leisure industry - Predictive analytics - Social networking (online) - Tourism

**Uncontrolled terms:** Empirical research - Hot spot - Information behavior - Online social medias - Practical guidance - Stimulus response - User information - WeChat official account

**Classification code:** 723 Computer Software, Data Handling and Applications

Computer Software, Data Handling and Applications

- 723.5 Computer Applications

Computer Applications

- 971 Social Sciences

Social Sciences

**Funding Details:** Number: 91546125, Acronym: NSFC, Sponsor: National Natural Science Foundation of China;

**Funding text:** Financial support from the Science and Technology Plan Project of Beijing (No. Z171100000117009) is acknowledged. Financial support from the Science and Technology Plan Project of Beijing (No. Z171100000117009) and NSFC (No. 91546125) is acknowledged.

**Compendex references:** YES

**Database:** Compendex

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**Data Provider:** Engineering Village

## 41. Study on the influence mechanism of knowledge inertia on the adoption of innovative medical equipment

**Accession number:** 20185006220140

**Authors:** Zhang, Xun (1); Xu, Biao (2)

**Author affiliation:** (1) Hohai University, China; (2) Nanjing University, China

**Corresponding author:** Xu, Biao(xubiao@nju.edu.cn)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2017-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 17th International Conference on Electronic Business: Smart Cities, ICEB 2017

**Issue date:** 2017

**Publication year:** 2017

**Pages:** 312-316

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 17th International Conference on Electronic Business: Smart Cities, ICEB 2017

**Conference date:** December 4, 2017 - December 8, 2017

**Conference location:** Al Barsha, Dubai, United arab emirates

**Conference code:** 142153

**Publisher:** International Consortium for Electronic Business

**Abstract:** This study examines the influence mechanism of knowledge inertia on the adoption of innovative medical equipment. We develop a conceptual model of the relationship of knowledge inertia, knowledge absorptive capability and the adoption of innovative medical equipment. Our research findings show that knowledge absorptive capability has a significant positive impact on the adoption of innovative medical equipment while knowledge inertia has a negative impact. In the mean time, knowledge absorptive capability mediates the relationship between knowledge inertia and the adoption of innovative medical equipment. Moreover, perceived organizational support and knowledge potential of doctor has a moderating effect on the relationship between knowledge inertia and knowledge absorptive capability. The paper rounds off with a discussion of expected contributions. © 2017 International Consortium for Electronic Business. All right reserved.

**Number of references:** 30

**Main heading:** Knowledge management

**Controlled terms:** Electronic commerce - Electronics industry - Smart city

**Uncontrolled terms:** Absorptive capability - Conceptual model - Influence mechanism - Knowledge inertia - Knowledge potential - Moderating effect - Perceived organizational supports

**Classification code:** 723.5 Computer Applications

Computer Applications

**Funding Details:** Number: 14YJC630198, Acronym: -, Sponsor: -; Number: 71473116, Acronym: NSFC, Sponsor: National Natural Science Foundation of China; Number: -, Acronym: -, Sponsor: Fundamental Research Funds for the Central Universities;

**Funding text:** This work was supported by the Ministry of Education in China Project of Humanities and Social Sciences (Project No.14YJC630198) and National Natural Science Foundation of China (Grant No. 71473116). Also, this work was supported by "Fundamental Research Funds for the Central Universities" (Project No. No.2014B15014).

**Compendex references:** YES

**Database:** Compendex

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**Data Provider:** Engineering Village

## 42. Research on the development of measurement scale for the synergy of college technological and creative team

**Accession number:** 20185006220126

**Authors:** Fan, Chuanhao (1); Wen, Ting (1); Xu, Buchao (2); Wang, Jigan (1); He, Kaiyuan (1)

**Author affiliation:** (1) Hohai University, China; (2) East China University of Technology, China

**Corresponding author:** Wen, Ting(wen5ting@163.com)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2017-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 17th International Conference on Electronic Business: Smart Cities, ICEB 2017

**Issue date:** 2017

**Publication year:** 2017

**Pages:** 222-227

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 17th International Conference on Electronic Business: Smart Cities, ICEB 2017

**Conference date:** December 4, 2017 - December 8, 2017

**Conference location:** Al Barsha, Dubai, United arab emirates

**Conference code:** 142153

**Publisher:** International Consortium for Electronic Business

**Abstract:** Based on the strictly scale development program and the sorting of existing literature, we used the methods of interview and open questionnaire to collect measurement items for the synergy of college technological and creative team. Next we preliminarily revised measurement items through expert interview, then explored and verified the presurvey scale by using exploratory factor analysis and confirmatory factor analysis. The results show that the measurement scale, consisted of 17 items with good reliability and validity, is constituted of member's identification

of team goals, information communication among members, commitment of cooperation, inter-behavior between members. © 2017 International Consortium for Electronic Business. All right reserved.

**Number of references:** 18

**Main heading:** Behavioral research

**Controlled terms:** Electronic commerce - Electronics industry - Factor analysis - Multivariate analysis - Smart city - Surveys

**Uncontrolled terms:** College technological and creative team - Confirmatory factor analysis - Exploratory factor analysis - Information communication - Reliability and validity - Scale development - Synergy - The development of scale

**Classification code:** 723.5 Computer Applications

Computer Applications

- 922 Statistical Methods

Statistical Methods

- 922.2 Mathematical Statistics

Mathematical Statistics

- 971 Social Sciences

Social Sciences

**Compendex references:** YES

**Database:** Compendex

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**Data Provider:** Engineering Village

### 43. A crowdsourcing mode of tourism customization based on sharing economy

**Accession number:** 20185006220100

**Authors:** Wang, Zihao (1); Peng, Zhenlong (1); Gui, Xiaolin (1); Ding, Chong (1)

**Author affiliation:** (1) Quanzhou Normal University, Quanzhou, China

**Corresponding author:** Peng, Zhenlong(jxndpzi@163.com)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2017-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 17th International Conference on Electronic Business: Smart Cities, ICEB 2017

**Issue date:** 2017

**Publication year:** 2017

**Pages:** 13-19

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 17th International Conference on Electronic Business: Smart Cities, ICEB 2017

**Conference date:** December 4, 2017 - December 8, 2017

**Conference location:** Al Barsha, Dubai, United Arab Emirates

**Conference code:** 142153

**Publisher:** International Consortium for Electronic Business

**Abstract:** China's latest innovations of Internet Economy are partly reflected in video live broadcast, shared bicycles etc. In recent years, tourism industry in China obtains rapid development by utilizing Internet. However, it is still difficult to meet the growing tourist demands. In order to solve this problem, in this paper, we put forward a Tourism Crowdsourcing Model (TCM), which utilizes the public creativity to meet the increasing demands for personalized tourism. Firstly, the main problems of the tourism industry are analyzed. Secondly, the pattern of TCM is elaborated, and a matching algorithm between the tourist requirements and the workers' abilities is well designed to find the qualified service providers efficiently and accurately. Finally, an example is given to verify the feasibility and effectiveness of the TCM based on shared economy. The results show that TCM has some significant advantages to satisfy the tourism personalized needs by motivating the public to participate in the tourism industry initiative. © 2017 International Consortium for Electronic Business. All right reserved.

**Number of references:** 13

**Main heading:** Leisure industry

**Controlled terms:** Crowdsourcing - Electronic commerce - Electronics industry - Smart city - Tourism

**Uncontrolled terms:** Best-matched - Internet economy - Matching algorithm - Personalized tourism - Service provider - Sharing economy - Workers'

**Classification code:** 723.5 Computer Applications

Computer Applications

**Funding Details:** Number: 61172090,61472316,61502380, Acronym: NSFC, Sponsor: National Natural Science Foundation of China;

**Funding text:** This research was supported partly by the following fund projects: 1Natural Science Foundation of China (No. 61172090,61472316,61502380) 2Key projects of science and technology plan in Fujian province, "Key techniques of task assignment and results collection on mobile crowd sensing based on trustable interaction" (No.2016H0029) 3Projects for Young Teacher in Fujian province 2015: "Research on Integration development of Mobile E-commerce and Inner location based on iBeacon" (No. JA15401). 4Key Projects of Quanzhou Technology Bureau in 2012 and 2013: "High Educational Engineering Research Center of Fujian Province for E-Commerce Intelligent Based on Cloud Computing and Internet of Things" (No. 2012Z102, 2013Z123) 5Quanzhou Federation of Social Science Circles, Fujian China, under Grant 2017D07. 6College Students Innovation and Entrepreneurship Training Program of Fujian Province (No. 201610399042)

**Compendex references:** YES

**Database:** Compendex

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**Data Provider:** Engineering Village

#### 44. The nature of IT firms: A systemic literature review and analysis

**Accession number:** 20185006220133

**Authors:** Huang, Sha (1); Xu, Dongming (1)

**Author affiliation:** (1) University of Queensland, Australia

**Corresponding author:** Huang, Sha(s.huang@business.uq.edu.au)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2017-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 17th International Conference on Electronic Business: Smart Cities, ICEB 2017

**Issue date:** 2017

**Publication year:** 2017

**Pages:** 272-286

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 17th International Conference on Electronic Business: Smart Cities, ICEB 2017

**Conference date:** December 4, 2017 - December 8, 2017

**Conference location:** Al Barsha, Dubai, United arab emirates

**Conference code:** 142153

**Publisher:** International Consortium for Electronic Business

**Abstract:** IT firms have grown in economic importance in the last few decades. It is the interest of both practitioners and researchers across a range of business management and information system disciplines. Having conducted a systemic literature review, we proposed a new conceptual definition and conceptual frameworks which together provides a deeper understanding of the essence of "IT firms". The definition we proposed of IT firm offers a way forward for identification of IT firms with increased understanding and a clear boundary. The conceptual framework synthesized the characteristic dimensions of IT firms. It not only improves current understanding of IT firms but also provides a solid foundation for further studies of IT firms. The types of IT firms developed in this paper offers a means of classifying different IT firms. The IT firm development framework in relation to innovation focus and improvisational capabilities not only advances understanding about IT firms, but also provides further research opportunities towards empirical testing and knowledge building. The insights discovered in the paper are also useful for business practitioners in strategy and consulting. The frameworks provide useful knowledge and advice for IT firms within the industry. © 2017 International Consortium for Electronic Business. All right reserved.

**Number of references:** 98

**Main heading:** Electronics industry

**Controlled terms:** Computer aided instruction - Electronic commerce - Information management - Smart city

**Uncontrolled terms:** Business management - Business practitioners - Conceptual frameworks - Development frameworks - Economic importance - Improvisational capabilities - IT firms - Research opportunities

**Classification code:** 723.5 Computer Applications

Computer Applications

**Compendex references:** YES

**Database:** Compendex

Compilation and indexing terms, Copyright 2021 Elsevier Inc.

**Data Provider:** Engineering Village

## 45. Research on transforming capability of economic system and its impact on urban competitiveness

**Accession number:** 20185006220127

**Authors:** Shi, Li (1); He, Sheng-Yu (1); Song, Chong (1)

**Author affiliation:** (1) Chengdu University of Information Technology, Chengdu, China

**Corresponding author:** Shi, Li(shili@cuit.edu.cn)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2017-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 17th International Conference on Electronic Business: Smart Cities, ICEB 2017

**Issue date:** 2017

**Publication year:** 2017

**Pages:** 228-233

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 17th International Conference on Electronic Business: Smart Cities, ICEB 2017

**Conference date:** December 4, 2017 - December 8, 2017

**Conference location:** Al Barsha, Dubai, United arab emirates

**Conference code:** 142153

**Publisher:** International Consortium for Electronic Business

**Abstract:** With rapid development of Internet, ICT-drive forces for stimulating productivity and economic growth are becoming hot issues nowadays. Chengdu, Chongqing, Xi'an and Kuming are representatives of advanced productivity in Southwest China. Digitalization of economic system in these cities has raised a topic of great importance regarding transforming capabilities on Internet. To accelerate transforming and to foster sustainable growth, the research moves beyond ICT adoption to explore internal factors to speed up transforming in economic systems of the four cities. Evaluation Framework of Transforming Capabilities (EFTC) and Fuzzy Comprehensive Evaluation Model (FCEM) are proposed, and empirical data of the observing cities' during 2010-2015 has been collected. We further our research to the extent of internal regional economic system, and try to identify common factors in transforming based on industrial theory. Our research yields four findings. 1) Transforming capabilities range slightly in growth poles in South-west China; 2) New growth poles are shaping when economic society transforming on Internet; 3) Regions will face increasing pressure to develop on Internet; 4) Internal industrial structure has dominant impact on transforming capabilities. Finally, we offer recommendations regarding accelerating economic system transforming on Internet. © 2017 International Consortium for Electronic Business. All right reserved.

**Number of references:** 24

**Main heading:** Metadata

**Controlled terms:** Digital storage - Electronic commerce - Electronics industry - Industrial research - Poles - Productivity - Regional planning - Smart city

**Uncontrolled terms:** eBusiness - Economic growths - Economic system - Transforming capability - West China

**Classification code:** 403.2 Regional Planning and Development

Regional Planning and Development

- 408.2 Structural Members and Shapes

Structural Members and Shapes

- 722.1 Data Storage, Equipment and Techniques

Data Storage, Equipment and Techniques

- 723.5 Computer Applications

Computer Applications

- 901.3 Engineering Research

Engineering Research

**Funding Details:** Number: 14BGL152, Acronym: NSSFC, Sponsor: National Office for Philosophy and Social Sciences;

**Funding text:** This work is supported by National Social Science Fund of China (Grant No.14BGL152). We are indebted to scholars' comments from our colleagues, Jia-Xian Qiu and Yong-quan Gao. According to their suggestions about analysis for details on regional industrial structure migration, we revised our research. We also thank the statistic experts from Local Statistic Bureau for their constructive comments and the field study participants for their involvement.

**Compendex references:** YES

**Database:** Compendex  
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**Data Provider:** Engineering Village

## 46. A study of conflict and resistant behaviors in the implementation of the ecosystem platform

**Accession number:** 20185006220102  
**Authors:** Hung, Wei Hsi (1); Tsai, Yen Sheng (1)  
**Author affiliation:** (1) National Chengchi University, Taiwan  
**Corresponding author:** Tsai, Yen Sheng(daniel@jordon.com.tw)  
**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)  
**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)  
**Volume:** 2017-December  
**Part number:** 1 of 1  
**Issue title:** Proceedings of the 17th International Conference on Electronic Business: Smart Cities, ICEB 2017  
**Issue date:** 2017  
**Publication year:** 2017  
**Pages:** 29-37  
**Language:** English  
**ISSN:** 16830040  
**Document type:** Conference article (CA)  
**Conference name:** 17th International Conference on Electronic Business: Smart Cities, ICEB 2017  
**Conference date:** December 4, 2017 - December 8, 2017  
**Conference location:** Al Barsha, Dubai, United arab emirates  
**Conference code:** 142153  
**Publisher:** International Consortium for Electronic Business  
**Abstract:** The physical retail market of the J Company is impacted by up-and-coming virtual market channels, resulting in constantly shrinking business performance. Hence the J Company was compelled to launch an innovative ecosystem IT platform to re-capture market advantages through new technology application and new retail methods. However, the promotion of the new innovative platform was met with expected and unexpected resistance and conflict from within and outside the company. This paper explored ways to prevent and solve the problems confronted during the course of implementation to increase success in promoting the ecosystem platform. © 2017 International Consortium for Electronic Business.All right reserved.  
**Number of references:** 16  
**Main heading:** Ecosystems  
**Controlled terms:** Electronic commerce - Electronics industry - Smart city  
**Uncontrolled terms:** Business performance - IT platforms - Market advantages - New technology application - Retail market - Up-and-coming - Virtual markets  
**Classification code:** 454.3 Ecology and Ecosystems  
Ecology and Ecosystems  
- 723.5 Computer Applications  
Computer Applications  
**Compendex references:** YES  
**Database:** Compendex  
Compilation and indexing terms, Copyright 2021 Elsevier Inc.  
**Data Provider:** Engineering Village

## 47. Digital multimedia design integration model based on experience design

**Accession number:** 20185006220109  
**Authors:** Chuang, Kai-Ju (1, 2)  
**Author affiliation:** (1) National Chengchi University, Taiwan; (2) Hsuan Chuang University, Taiwan  
**Corresponding author:** Chuang, Kai-Ju(karen9999k@gmail.com)  
**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)  
**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)  
**Volume:** 2017-December  
**Part number:** 1 of 1  
**Issue title:** Proceedings of the 17th International Conference on Electronic Business: Smart Cities, ICEB 2017  
**Issue date:** 2017  
**Publication year:** 2017

**Pages:** 79-84

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 17th International Conference on Electronic Business: Smart Cities, ICEB 2017

**Conference date:** December 4, 2017 - December 8, 2017

**Conference location:** Al Barsha, Dubai, United arab emirates

**Conference code:** 142153

**Publisher:** International Consortium for Electronic Business

**Abstract:** The thought of experience design can create a digital media system environment that is in line with human life experience which can assist designers to plan tour experience for the users, and shape the digital media system environment with experience value. The objective of this study is to draw an effective design method through the experience design thinking and to apply it to the development of digital media system. Through the well-designed overall environment, the user's emotional experience can also be met. By way of the discussion of literature theory, consolidation of the expert interviews, and 14 case observations, this study summarizes the design principles applied to the integrated development of digital media systems. The results of this study sum up 12 design criteria and propose a set of feasibility and reference value of the design method for the relevant designer's reference. The design principle gives design workers a clear design and implementation criteria to promote the designers (managers, executor, etc.) to have a clearer goal, enhance the design quality of digital media, and to create an environment that is focused on user's feeling and experience. © 2017 International Consortium for Electronic Business. All right reserved.

**Number of references:** 15

**Main heading:** Design

**Controlled terms:** Digital storage - Electronic commerce - Electronics industry - Human resource management - Smart city - User experience

**Uncontrolled terms:** Design and implementations - Design integrations - Design Principles - Digital multimedia - Ease-of-use - Emotional experiences - Experience design - Integrated development

**Classification code:** 722.1 Data Storage, Equipment and Techniques

Data Storage, Equipment and Techniques

- 723.5 Computer Applications

Computer Applications

- 912.2 Management

Management

**Compendex references:** YES

**Database:** Compendex

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**Data Provider:** Engineering Village

## 48. Inferring social media users' demographics from profile pictures: A Face++ analysis on twitter users

**Accession number:** 20185006220117

**Authors:** Jung, Soon-Gyo (1); An, Jisun (1); Kwak, Haewoon (1); Salminen, Joni (1); Jansen, Bernard J. (1)

**Author affiliation:** (1) Qatar Computing Research Institute, Hamad Bin Khalifa University, Qatar

**Corresponding author:** Jung, Soon-Gyo(sjung@hbku.edu.qa)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2017-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 17th International Conference on Electronic Business: Smart Cities, ICEB 2017

**Issue date:** 2017

**Publication year:** 2017

**Pages:** 140-145

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 17th International Conference on Electronic Business: Smart Cities, ICEB 2017

**Conference date:** December 4, 2017 - December 8, 2017

**Conference location:** Al Barsha, Dubai, United arab emirates

**Conference code:** 142153

**Publisher:** International Consortium for Electronic Business

**Abstract:** In this research, we evaluate the applicability of using facial recognition of social media account profile pictures to infer the demographic attributes of gender, race, and age of the account owners leveraging a commercial and well-known image service, specifically Face++. Our goal is to determine the feasibility of this approach for actual system implementation. Using a dataset of approximately 10,000 Twitter profile pictures, we use Face++ to classify this set of images for gender, race, and age. We determine that about 30% of these profile pictures contain identifiable images of people using the current state-of-the-art automated means. We then employ human evaluations to manually tag both the set of images that were determined to contain faces and the set that was determined not to contain faces, comparing the results to Face++. Of the thirty percent that Face++ identified as containing a face, about 80% are more likely than not the account holder based on our manual classification, with a variety of issues in the remaining 20%. Of the images that Face++ was unable to detect a face, we isolate a variety of likely issues preventing this detection, when a face actually appeared in the image. Overall, we find the applicability of automatic facial recognition to infer demographics for system development to be problematic, despite the reported high accuracy achieved for image test collections. © 2017 International Consortium for Electronic Business. All right reserved.

**Number of references:** 20

**Main heading:** Face recognition

**Controlled terms:** Classification (of information) - Electronic commerce - Electronics industry - Population statistics - Smart city - Social networking (online)

**Uncontrolled terms:** Demographic inference - Demographics - Face - Personas - Social media - Twitter - User attributes

**Classification code:** 716.1 Information Theory and Signal Processing

Information Theory and Signal Processing

- 723 Computer Software, Data Handling and Applications

Computer Software, Data Handling and Applications

- 723.5 Computer Applications

Computer Applications

**Numerical data indexing:** Percentage 2.00e+01%, Percentage 3.00e+01%, Percentage 8.00e+01%

**Compendex references:** YES

**Database:** Compendex

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**Data Provider:** Engineering Village

## 49. Just ticking the box: A social informatics model of the consequences of consent

**Accession number:** 20201408377773

**Authors:** Jamieson, David (1); Wilson, Rob (1); Martin, Mike (1)

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**Corresponding author:** Jamieson, David(david.a.jamieson@northumbria.ac.uk)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2019-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 19th International Conference on Electronic Business: Artificial Intelligence Empowered Business Processes, ICEB 2019

**Issue date:** 2019

**Publication year:** 2019

**Pages:** 530-534

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 19th International Conference on Electronic Business, ICEB 2019

**Conference date:** December 8, 2019 - December 12, 2019

**Conference location:** Newcastle upon Tyne, United kingdom

**Conference code:** 158514

**Sponsor:** Newcastle Business School; SME

**Publisher:** International Consortium for Electronic Business

**Abstract:** Given the societal diffusion, proliferation and ubiquity of computerised systems and platforms, it is generally perceived by consumers that systems and eBusiness platforms often pose a threat to the privacy of their supplied information (Srnicsek, 2017; Andreotti et al., 2018). Furthermore, as we see the replacement of systems that were once manual and paper-based migrate to digital processes and information systems (Lunt et al., 2019), consent in the information era is reduced to 'Yes' or 'No' option, often in the form of a tick box. Additionally, despite the arrival of the General Data Protection Regulation in 2018 as means to provide protection in relation to data processing, we



argue that there is a lack of transparency in relation to the intention of this data processing and secondary data use for the purposes of research and marketing, for example. In light of this, we argue that there exists an increasingly difficult challenge to establish a mutual understanding of what consent actually is and what the wider permutations of it represents and comprehends. The lack of mutual understanding, in a digital world that is becoming increasingly reliant on the perceived benefits of acquiring and processing large sets of data (Kitchin, 2014; Breidbach et al., 2019) is deeply problematic. It is not only problematic for the consumer, but also to system developers, platform owners, and data processors alike. To this end, this paper presents a model, derived from action research, which positions the concept of consent within a socio-technical framing. This model approaches consent, in the context of digital platforms and eBusiness and how it comes to be represented in information systems, as a socio-technical construct of moral orders that imbues the feelings, convictions and aspirations of the consumer as they are engaged in the use of digital systems. We offer that consent is merely approached as an attribute in a data model, rather than relaying the communicative understanding of the consumer. This model introduces the areas of information processing systems and information communication systems as two differing interpretations within which digital platforms can be perceived. We offer these two distinctions as a mechanism to explain and, more importantly, explore the notion of the governance of consent and how this comes to be manifested in information systems. © 2019 International Consortium for Electronic Business. All rights reserved.

**Number of references:** 11

**Main heading:** Electronics industry

**Controlled terms:** Artificial intelligence - Data privacy - Electronic commerce - Informatics - Information systems - Information use

**Uncontrolled terms:** Consent - Data governances - Digital platforms - E-business platforms - General data protection regulations - Information processing systems - Information sharing - Mutual understanding

**Classification code:** 723.4 Artificial Intelligence

Artificial Intelligence

- 723.5 Computer Applications

Computer Applications

- 903.3 Information Retrieval and Use

Information Retrieval and Use

**Compendex references:** YES

**Database:** Compendex

Compilation and indexing terms, Copyright 2021 Elsevier Inc.

**Data Provider:** Engineering Village

## 50. Analysing big data projects using github and JavaScript repositories

**Accession number:** 20185006220104

**Authors:** Hamilton, John R. (1); Tee, SingWhat (1); Holdsworth, Jason (1); Alshomali, Mohammad Azeez (1)

**Author affiliation:** (1) James Cook University, Australia

**Corresponding author:** Hamilton, John R.(John.Hamilton@jcu.edu.au)

**Source title:** Proceedings of the International Conference on Electronic Business (ICEB)

**Abbreviated source title:** Proc. Int. Conf. Electron. Bus. (ICEB)

**Volume:** 2017-December

**Part number:** 1 of 1

**Issue title:** Proceedings of the 17th International Conference on Electronic Business: Smart Cities, ICEB 2017

**Issue date:** 2017

**Publication year:** 2017

**Pages:** 47-52

**Language:** English

**ISSN:** 16830040

**Document type:** Conference article (CA)

**Conference name:** 17th International Conference on Electronic Business: Smart Cities, ICEB 2017

**Conference date:** December 4, 2017 - December 8, 2017

**Conference location:** Al Barsha, Dubai, United arab emirates

**Conference code:** 142153

**Publisher:** International Consortium for Electronic Business

**Abstract:** GitHub open source software developers remain in short supply. Successful GitHub projects offer multiple pathways for developers to contribute into their repositories. This study's GitHub JavaScript big data is path modelled to provide understanding of the different significant developer contribution pathways towards raising the project's activity level. Its significant pathways offer the project's creator benchmark decision making capabilities that can be used to trigger faster project software development through to its next completion point. This approach has behavioural

consumptive value connotations that may provide a future pathway towards tapping big data sources and to also delivering real business values. © 2017 International Consortium for Electronic Business. All right reserved.

**Number of references:** 24

**Main heading:** Open source software

**Controlled terms:** Big data - Decision making - Electronic commerce - Electronics industry - High level languages - Open systems - Smart city - Software design

**Uncontrolled terms:** Activity levels - Business value - Consumption - Data-sources - Multiple pathways - Popularity - Short supply - Value

**Classification code:** 723 Computer Software, Data Handling and Applications

Computer Software, Data Handling and Applications

- 912.2 Management

Management

**Compendex references:** YES

**Database:** Compendex

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**Data Provider:** Engineering Village