

5th International Conference on Information Technology and Quantitative Management (ITQM 2017)

Procedia Computer Science Volume 122

New Delhi, India
8 – 10 December 2017

Part 1 of 2

Editors:

**Vandana Ahuja
Yong Shi
Deepak Khazanchi
Naseem Abidi**

**Yingjie Tian
Daniel Berg
James M. Tien**

ISBN: 978-1-5108-5593-9

Printed from e-media with permission by:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571



Some format issues inherent in the e-media version may also appear in this print version.

Copyright© by Elsevier B.V.
All rights reserved.

Printed by Curran Associates, Inc. (2018)

For permission requests, please contact Elsevier B.V.
at the address below.

Elsevier B.V.
Radarweg 29
Amsterdam 1043 NX
The Netherlands

Phone: +31 20 485 3911
Fax: +31 20 485 2457

<http://www.elsevierpublishingsolutions.com/contact.asp>

Additional copies of this publication are available from:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: 845-758-0400
Fax: 845-758-2633
Email: curran@proceedings.com
Web: www.proceedings.com



Table of Contents

Preface for ITQM 2017 Vandana Ahuja, Yong Shi, Deepak Khazanchi, Naseem Abidi, Yingjie Tian, Daniel Berg, and James M. Tien.....	1
Farmer Suicides in India and the Weather God Nilanjan Banik.....	10
Twitter Presence of Jet Airways-Deriving Customer Insights Using Netnography and Wordclouds Vandana Ahuja, and Moonis Shakeel.....	17
Prioritizing the Factors influencing Whistle Blowing Intentions of Teachers in Higher Education Institutes in India Kriti Priya Gupta, and Narendra Singh Chaudhary.....	25
Virtual Team Effectiveness: An Empirical Study Using SEM Swati Kaul Bhat, Neerja Pande, and Vandana Ahuja.....	33
Generating trust using Facebook-A study of 5 online apparel brands Radhika Sharma, Shirin Alavi, and Vandana Ahuja.....	42
Behavioural Finance: A Review Sujata Kapoor, and Jaya M. Prosad.....	50
Impact of Individual and Employment Variable on Job Satisfaction & Turnover Intention among Sales and Marketing Professionals M.A. Sanjeev.....	55
Employability Skills among Information Technology Professionals: A Literature Review Rajnish Kumar Misra, and Khushbu Khurana.....	63
Entrepreneurial Leadership and Organizational Effectiveness: A Comparative Study of Executives and Non-executives Prachee Mishra, and Rajnish Kumar Misra.....	71
Core Self Evaluations Scale: An Empirical Attestation among Software Professionals Praveen Kumar Sharma, and Rajnish Kumar Misra.....	79
Affect of Adversity Quotient on the Occupational Stress of IT Managers in India Sandeep Singh, and Tanu Sharma.....	86
Modeling Dependence between European Electricity Markets with Constant and Time-varying Copulas Jiangze Du, and Kin Keung Lai.....	94
Technology and Policy Strategies in the Era of CPS (Cyber Physical System) and Automated Driving Hee-Woon Cheong, and Hwally Lee.....	102
Factors influencing consumers' attitude towards adoption and continuous use of mobile applications: a conceptual model Anshul Malik, S. Suresh, and Swati Sharma.....	106

Perceived toxicity in leaders: Through the demographic lens of subordinates Nivedita Singh, Santosh Dev, and Santoshi Sengupta.....	114
Study on prediction model of grain post-harvest loss Hanxiao Yu, Bingchan Li, Dongqin Shen, Jie Cao, and Bo Mao.....	122
Analysis of Grain Storage Loss Based on Decision Tree Algorithm Xueli Liu, Bingchan Li, Dongqin Shen, Jie Cao, and Bo Mao.....	130
Multivariate Features Based Instagram Post Analysis to Enrich User Experience Vatsala Mittal, Aastha Kaul, Santoshi Sen Gupta, and Anuja Arora.....	138
How does Work Engagement vary with Employee Demography? Aarti Sharma, Alok Goel, and Santoshi Sengupta.....	146
How does economic policy uncertainty interact with sovereign bond yield? Evidence from the US Jun Wang, Xiaolei Sun, and Jianping Li.....	154
Sustainability of Brazilian Companies: A Financial Analysis Bruno Roberto Santos, Maria Augusta Soares Machado, Danilo Jusan, and André Machado Caldeira....	159
A Fuzzy Inference System to Support Medical Diagnosis in Real Time Igor Barone de Medeiros, Maria Augusta Soares Machado, Wallace José Damasceno, André Machado Caldeira, Rodrigo Costa dos Santos, and Joel Batista da Silva Filho.....	167
Research on the Influencing Factors of User 's Online Knowledge Consumption Behavior Jing Li, Shuai Zhang, Wentao Wang, and Yunzhi Wang.....	174
Effect of Emotional Intelligence on Job Performance of IT employees: A gender study Priyam Dhani, and Tanu Sharma.....	180
Decomposition of Evidence and Internal Conflict Alexander Lepskiy.....	186
Investments in a New Technological Infrastructure: Decision Making Using the ELECTRE-TRI Methodology João Guerra Duarte Neto, Maria Augusta Soares Machado, Luiz Flávio Autran Monteiro Gomes, André Machado Caldeira, and Frederico Silva Valentim Sallum.....	194
A Free Boundary Problem for pricing a defaultable restricted callable corporate bonds *This work is supported by National Natural Science Foundation of China (No. 11671301) Jin Liang, and Ying Chen.....	200
Scale development & validation for assessing attitude towards counterfeit luxury Neena Sondhi.....	206
Aging, Urbanization, and Energy Intensity based on Cross-national Panel Data Fangtao Liu, Miao Yu, and Pu Gong.....	214
Impact of Emissions Trading System on Renewable Energy Output Miao Yu, Mingshuai He, and Fangtao Liu.....	221
TIDM: Topic-Specific Information Detection Model Wen Xu, Jing He, Bo Mao, Youtao Li, Peiqun Liu, Zhiwang Zhang, and Jie Cao.....	229
Opinion Ensembling for Improving Economic Growth through Tourism Charu Puri, Akhil, Gaurav, Kush, and Naveen Kumar.....	237
Integration of Extenics and Axiomatic Design theory Wenjuan Li, Zhenghe Song, C. Steve Suh, and Enrong Mao.....	245
Decision Based Modeling of a Flexible Manufacturing Cell based on Hierarchical Timed Colored Petri Nets Sanjib Kumar Saren, Florin Blaga, Simona Dzitac, and Tiberiu Vesselenyi.....	253

A Method of Estimating Operational Risk: Loss Distribution Approach with Piecewise-defined Frequency Dependence Yinghui Wang, Jianping Li, and Xiaoqian Zhu.....	261
Power Demand Forecasting and Application based on SVR Qing Guo, Yuyao Feng, Xiaolei Sun, and Lijun Zhang.....	269
An Entropy based Method for Overlapping Subspace Clustering Charu Puri, and Naveen Kumar.....	276
Why Are Indian Banks Unable To Pass On The Interest Rate Cuts? An Enquiry Manish Sinha.....	284
Understanding Nature of Social Media Usage by Mobile Wallets Service Providers –An Exploration through SPIN Framework Purva Grover, Arpan Kumar Kar, and P. Vigneswara Ilavarasan.....	292
Forecasting Crude Oil Prices: a Deep Learning based Model Yanhui Chen, Kaijian He, and Geoffrey K.F. Tso.....	300
Load Forecasting via Deep Neural Networks Wan He.....	308
Managing critical supply chain issues in Indian healthcare Sudhanshu Singh, Rakesh Verma, and Saroj Koul.....	315
Social media usage vs. stock prices: an analysis of Indian firms Bhavya Kaushik, Harshit Hemani, and P. Vigneswara Ilavarasan.....	323
Sensitivity analysis of China’s energy-related CO ₂ emissions intensity for 2012 based on input–output Model Ling Li, Junrong Zhang, and Ling Tang.....	331
Temporal scaling and inter-individual hemispheric asymmetry of chaos estimation from EEG time series Hernán A. Díaz M., Fernando Maureira, and Felisa Córdova.....	339
Selecting industrial robots for milling applications using AHP Radu Eugen Breaz, Octavian Bologna, and Sever Gabriel Racz.....	346
The Application of Stochastic Bifurcation Theory to the Early Detection of Economic Bubbles Andrey Dmitriev, Victor Dmitriev, Oleg Sagaydak, and Olga Tsukanova.....	354
Analysis and Predictions of Historical Responsibilities of Carbon Mitigation Based on the RICE-2010 Model Bin Li, Tingting Li, and Huifang Zeng.....	362
Using LDA Model to Quantify and Visualize Textual Financial Stability Report Guowen Li, Xiaoqian Zhu, Jun Wang, Dengsheng Wu, and Jianping Li.....	370
Analysis of the Relation between Artificial Intelligence and the Internet from the Perspective of Brain Science Feng Liu, Yong Shi, and Peijia Li.....	377
Model and application of product conflict problem with integrated TRIZ and Extenics for low-carbon design Jianqiang Zhou, Fangzhi Gui, Yanwei Zhao, Zhiwei Xie, and Shedong Ren.....	384
Segmenting & profiling the deflecting customer: understanding shopping cart abandonment Neena Sondhi.....	392
E-Learning for Employability Skills: Students Perspective Anita Singh, and Lata Bajpai Singh.....	400

D-FCM: Density based fuzzy c-means clustering algorithm with application in medical image segmentation	
Hua-Xin Pei, Zeng-Rong Zheng, Chen Wang, Chun-Na Li, and Yuan-Hai Shao.....	407
Improved Forecast Ability of Oil Market Volatility Based on combined Markov Switching and GARCH-class Model	
Yu Runfang, Du Jiangze, and Liu Xiaotao.....	415
Development of the Environmental Sustainability Indicator Profile for ITeS Industry	
Shiv Shankar Kumar Yadav, Naseem Abidi, and Asit Bandyopadhyay.....	423
Employability Skills Essential for Healthcare Industry	
Swati Sisodia, and Neetima Agarwal.....	431
Engineering Sustainable Energy Systems: How Reactive and Predictive Homeostatic Control Can Prepare Electric Power Systems for Environmental Challenges	
Fernando Yanine, Antonio Sanchez-Squella, Aldo Barrueto, Felisa Cordova, and Sarat Kumar Sahoo....	439
Media guiding effects on public perceptions of the Chinese government anticorruption: evidence from a survey experiment	
Meihong Zhu, and Aihua Li.....	447
Comparison of Different Methods to Design Risk Matrices from The Perspective of Applicability	
Chunbing Bao, Dengsheng Wu, Jie Wan, Jianping Li, and Jianming Chen.....	455
An Empirical Study on Customer Preference towards Payment Banks over Universal Banks in Delhi NCR	
Shalini Mittal, Anoop Pant, and Shailesh Singh Bhadauria.....	463
The Relationship between Leader’s Emotional Intelligence and Employee Creativity: A Conceptual Framework of Mechanism	
Ragini Gupta, and Badri Bajaj.....	471
Applying multi-criteria analysis in a port system	
Claudia A. Duran, Fredi Palominos, and Felisa M. Cordova.....	478
Study on public opinion propagation in self media age based on time delay differential model	
Meimei Zhang, and Wenmin Wang.....	486
Employee Ability to Innovate: How Can Organizations Recognize It	
A.D. Amar, and Kevin Mullaney.....	494
Application of Extension Theory in Emotion Management	
Yingying Zhou, Jilei Shi, and Leilei Wu.....	502
Classification of Brain MRI Tumor Images: A Hybrid Approach	
Sanjeev Kumar, Chetna Dabas, and Sunila Godara.....	510
CPS(Cyber Physical System) based Manufacturing System Optimization	
SungHyun Kim, and Sungbum Park.....	518
Cricket Team Prediction with Hadoop: Statistical Modeling Approach	
Shubham Agarwal, Lavish Yadav, and Shikha Mehta.....	525
Duty-free shops: Are luxury brands being democratized?	
Svetlana Thubert, Leslie Francoulon, Laura Weber, Ivan Coste Maniere, and Fabien Boyaval.....	533
Sustainability practices in the luxury industry: How can one be sustainable in an over-consumptive environment?	
<i>Sustainability in the automotive world: The case of Tesla</i>	
Remy Aybaly, Laura Guerquin-Kern, Ivan Coste Manière, Dorisa Madacova, and Julia van Holt.....	541

Luxury Toys for Men: When women will let us decide and buy on our own? Marion Amirouche, François Arnault, Fabien Boyaval, Ivan Coste-Manière, Candice Salomé, and Julia van Holt.....	548
Social Return on Investment (SROI) for Hindustan Unilever’s (HUL) CSR initiative on livelihoods (Prabhat) Varinder K Gambhir, Niraj Majmudar, Shubham Sodhani, and Neema Gupta.....	556
A Mathematical Model of Consumers’ Buying Behaviour Based On Multiresolution Analysis Prateep Upadhyay, S.K. Upadhyay, and K.K. Shukla.....	564
Some Characteristics of Credal Sets and Their Application to Analysis of Polls Results Andrey G. Bronevich, and Natalia S. Spiridenkova.....	572
Online luxury: The code breakers of a traditional sector Laurie Castillan, Carole Chheang, Caroline Denoux, Céline Ferrenbach, Caroline Gérard, Evelyne Hua, Julia VAN HOLT, and Ivan Coste Manière.....	579
Consumer’s Perspective and Retailer’s Consideration Towards Purchase of Private Label Brands Debdeep De, and Ajay Singh.....	587
Research on Data Stream Clustering Based on FCM Algorithm ¹ Tiancheng Gao, Aihua Li, and Fan Meng.....	595
PCA based 3D City Model Generalization for Electricity Simulation Yan Li, Fanfan Liu, Ming Li, Cheng Zhang, Shengya Han, Chengyuan Wang, and Yaoting Tang.....	603
On-demand Interdomain Path Building Protocol Yansheng Qu, Cheng Zhang, Chengyuan Wang, Fanfan Liu, Hao Xu, and Yin Liu.....	609
Implementation and Current Status of Food Traceability System in Jiangsu China Yun Cao, Xiaokang Liu, Chun Guan, and Bo Mao.....	617
Hybrid Learning Network: A Novel Architecture for Fast Learning Ying Liu, and Chao Xiang.....	622
An Empirical Investigation of Factors Influencing the Development of Positioning Strategy I. Butt, U. Kumar, and V. Kumar.....	629
Identifying Determinants of Toilet Usage by Poor in Urban India Surya AV, Archana Vyas, Madhu Krishna, and Naseem Abidi.....	634
The Study on the Relationship between University Faculties’ Job Stress and Organizational Commitment in China Pingping Li, Yanbin Liu, Ping Yuan, and Fanghui Ju.....	642
Price setting in the retail electricity market under the Bertrand competition Natalia Aizenberg, and Nikolai Voropai.....	649
Usage Analysis of Mobile Devices Aman Kr. Singh, Ashish Kr. Prajapati, Vikash Kumar, and Subhankar Mishra.....	657
Towards Entrepreneurial Organization: From the case of Organizational Process Innovation in Naver Young-Kyu Kim, and Min Ho Ryu.....	663
Cyber psychology and cyber behaviour of adolescents-the need of the contemporary era Vanshika Ahuja, and Shirin Alavi.....	671
The Study of Credit Scoring Model Based on Group Lasso Hongmei Chen, and Yaoxin Xiang.....	677
Scenario Analysis of Textile Industry in Asia-Pacific Trade Agreement (APTA) Vaishali Agarwal, Ramanpreet Kaur, and Debdeep De.....	685

Scope of India's and China's Investment in African Continent Saif Mohd. Khan, and Karan Arora.....	691
Analysis of the grain loss in harvest based on logistic regression Tingkai Huang, Bingchan Li, Dongqin Shen, Jie Cao, and Bo Mao.....	698
Optimizing the Recruitment Funnel in an ITES Company: An Analytics Approach Mamta Mohapatra, and Priyanka Sahu.....	706
News clustering based on similarity analysis Ilya Blokh, and Vassil Alexandrov.....	715
Application of Design of Experiment Method for Sports Results Prediction Fangyao Liu, Yong Shi, and Lotfollah Najjar.....	720
Analytics in Human Resource Management The OpenSKIMR Approach Peter Mirski, Reinhard Bernsteiner, and Dania Radi.....	727
An alternative calculation of the consensus degree in group decision making problems M.J. del Moral, F. Chiclana, J.M. Tapia Garcia, and E. Herrera-Viedma.....	735
A Study on Farmers' Agriculture related Tourism Entrepreneurship Behavior Ping Yuan, Yanbin Liu, Fanghui Ju, and Xingsen Li.....	743
Social Media Usage for Tourism: A Case of Rajasthan Tourism Ashish Kumar Rathore, Umesh Chand Joshi, and P. Vigneswara Ilavarasan.....	751
INDIA-ASEAN FTA: Analysis of Cooperation in Transportation Sector Rajat Tyagi, Anchal Bansal, Varun Kaul, and Debdeep De.....	759
Effect of Social Media Connectivity on Success of Crowdfunding Campaigns Harmeet Kaur, and Jaya Gera.....	767
Evaluating the well-qualified borrowers from PaiPaiDai Haifeng Li, Yuejin Zhang, and Ning Zhang.....	775
Bayes-Extension Discriminant Method of Two Populations Based on Multivariate Kernel Density Estimation Jilei Shi, Shuhai Zhu, Yingying Zhou, and Rihua Li.....	780
Market Manipulation Detection Based on Classification Methods Aihua Li, Jiede Wu, and Zhidong Liu.....	788
Selecting between CNC milling, robot milling and DMLS processes using a combined AHP and fuzzy approach Radu Eugen Breaz, Octavian Bologa, and Sever Gabriel Racz.....	796
Concept drift in Streaming Data Classification: Algorithms, Platforms and Issues Janardan, and Shikha Mehta.....	804
Modeling of Microblogging Social Networks: Dynamical System vs. Random Dynamical System Andrey Dmitriev, Olga Tsukanova, and Svetlana Maltseva.....	812
Mapping Research Collaboration Network of International Methane Hydrate Research Xiaoli Lu, and Cuifeng Ma.....	820
Interactions of International Portfolio Flows: an Empirical Study Based on Network Analysis Suxiao Li, and Haizhen Yang.....	826
Clu-PoF-A Novel Post Filtering Approach for Efficient Context Aware Recommendations Anu Taneja, and Anuja Arora.....	834
Government portals, social media platforms and citizen engagement in India: Some insights Ravinder Kumar Verma, Sudeep Kumar, and P. Vigneswara Ilavarasan.....	842

The role of organizational orientation and product attributes in performance for sustainability Hanuv Mann, Inder Jit Singh Mann, and Nehul Gullaiya.....	850
Long-range linear correlations and nonlinear chaos estimation differentially characterizes functional connectivity and organization of the Brain EEG Hernán A. Díaz M., Fernando Maureira, Felisa Córdova, and Fredi Palominos.....	857
Topic Modeling Driven Content Based Jobs Recommendation Engine for Recruitment Industry Shivam Bansal, Aman Srivastava, and Anuja Arora.....	865
Brain Topography Method based on Hilbert-Huang Transform Felisa M. Córdova, Rogers Atero, and Fernando Cifuentes.....	873
Precision Sugarcane Monitoring Using SVM Classifier Sachin Kumar, Sumita Mishra, Pooja Khanna, and Pragya.....	881
Review of Technology Adoption frameworks in Mobile Commerce Mayanka Singh Chhonker, Deepak Verma, and Arpan Kumar Kar.....	888
Determinants of loan funded successful in online P2P Lending Yuejin Zhang, Haifeng Li, Mo Hai, Jiaxuan Li, and Aihua Li.....	896
Aggregation operators in group decision making: Identifying citation classics via H-classics F.J. Cabrerizo, M.A. Martínez, M.J. Cobo, P. Lázaro-Rodríguez, J. López-Gijón, and E. Herrera-Viedma.....	902
IPL Visualization and Prediction Using HBase Shubhra Singh, and Parmeet Kaur.....	910
Support Vector Machine Optimized by Elephant Herding Algorithm for Erythematous-Squamous Diseases Detection Eva Tuba, Ivana Ribic, Romana Capor-Hrosik, and Milan Tuba.....	916
Speak up: Get Rid from Daily Problems Afreen, Sejal Goyal, Anuja Arora, and Niyati Aggrawal.....	924
Risk Spillover Effect of Chinese Commercial Banks: Based on Indicator Method and CoVaR Approach Xiu-Qi Fan, Meng-Di Du, and Wen Long.....	932
Impact of Anti Smoking Campaigns on Youth Aakansha Chauhan, and Rahul Sharma.....	941
Developing a Financial Inclusion Index for India Sweta Goel, and Rahul Sharma.....	949
Decline in Mobile Application Life Cycle Anushruti Vagrani, Niraj Kumar, and P. Vigneswara Ilavarasan.....	957
Technology forecast of Dye sensitized Solar Cell as a Sustainable Future Energy Byoungki Park, and Jongyun Moon.....	965
Exploring Factors affecting Supply Chain of IT Products: A Retailer's Perspective Vishal Gupta, and Naseem Abidi.....	969
The technology of the strategic goal-setting and monitoring of a system development on the basis of cognitive mapping Zinaida Avdeeva, and Svetlana Kovriga.....	977
Study of the achievement of university students and their relationship with the selection process Fredi E. Palominos, Seomara K. Palominos, Felisa M. Córdova, and Hernán Díaz.....	985
Manipulability of majoritarian rules by coalitions with the same first-ranked alternative Fuad Aleskerov, Daniel Karabekyan, Alexander Ivanov, and Vyacheslav Yakuba.....	993

Non-uptake of a Low Cost Retail Management Solution by Small Businesses: An Empirical Analysis Nimish Joseph, Harleen Singh Somal, P Vigneswara Ilavarasan, and Arpan K Kar.....	1001
A Novel User-based Spam Review Detection Simran Bajaj, Niharika Garg, and Sandeep Kumar Singh.....	1009
Investigating E tailer’s perceived Website Quality using Analytical Hierarchy Process Technique Anjali Pathania, and Gowhar Rasool.....	1016
Influencing Factors of Intelligent Manufacturing: Empirical Analysis Based on SVR Model Liu Xinyuan, Cheng Qing, and Guo Kun.....	1024
A Multi Attribute Value Theory approach to rank association rules for leveraging better business decision making Shekhar Shukla, B.K. Mohanty, and Ashwani Kumar.....	1031
Market Efficiency between Indian & US Crude Oil Future Market Swati Sharma.....	1039
Planning in Aircraft Industry based on prediction of Air Traffic Yash Madhwal, and Zinaida Avdeeva.....	1047
Future Directions and a Roadmap in Digital Computational Humanities for a Data Driven Organization Shalini Upadhyay, and Nitin Upadhyay.....	1055
Managing Cloud Service Evaluation and Selection Nitin Upadhyay.....	1061
Iterative Projection approach for solving the Territorial Business Sales optimization problem Laura Hervert-Escobar, and Vassil Alexandrov.....	1069
Cost Extension Control Model in Digital Context: From Continuous Cost Reduction to Value Co-creation Ling Xu, Chengxiao Zhang, Jing Guo, and Xingsen Li.....	1077
Digital Communication: Easing Operational Outcomes in the Workplace Shoma Mukherji, and Neerja Arora.....	1084
Off-line Handwritten Numeral Recognition using Hybrid Feature Set – A Comparative Analysis Savita Ahlawat, and Rahul Rishi.....	1092
A Performance Evaluation of Classification Algorithms for Big Data Mo Hai, You Zhang, and Yuejin Zhang.....	1100
Assessing influence of online reputation on sales using a zero-inflated negative binomial model Min Xu, Qiang Ye, Xiaolin Wang, and Mohan Wang.....	1108
Technology-mediated learning paradigm and the blended learning ecosystem: what works for working professionals? Ranjan Kumar, and Neerja Pande.....	1114
Discovering Top-k Probabilistic Frequent Itemsets from Uncertain Databases Haifeng Li, Yuejin Zhang, and Ning Zhang.....	1124
Mining Text for Disease Diagnosis Shusaku Tsumoto, Tomohiro Kimura, Haruko Iwata, and Shoji Hirano.....	1133
Methodology for Studying Agreement and Disagreements of Divergent Social Groups Stella Elena Alexandrova.....	1141
The Reconciliation of the Contradictions in the Preservation and Development of Traditional Villages:Refinement of Contradictions through Extenics Tao Wang, Kemi Adeyeye, Dongsheng Wang, Haibo Guo, and Suliu Chen.....	1149
Asymmetric Synchronicity in Extreme Stock Price Movements: Evidence from China’s Stock Market Yang Liu, and Xiaoguang Yang.....	1156

The Tourism-Specific Sentiment Vector Construction Based on Kernel Optimization Function Luyao Zhu, Wei Li, Kun Guo, Yong Shi, and Yuanchun Zheng.....	1162
A Hybrid Information Construction Model on Factor Space and Extenics Xingsen Li, Haitao Liu, Cheng Chen, and Shouzhen Zeng.....	1168
Identifying Subscribers in Freemium E-commerce Model Based on Support Vector Classification Yongtao Yu, Bo Wang, and Xiaodan Yu.....	1175
Hawkes processes for forecasting currency crashes: Evidence from Russia Lyudmila Egorova, and Ihor Klymyuk.....	1182
An empirical study of chance-constrained portfolio selection model Yingwei Han, and Ping Li.....	1189