

2019 4th IEEE International Conference on Cybernetics (Cybconf 2019)

**Beijing, China
5-7 July 2019**



**IEEE Catalog Number: CFP1930U-POD
ISBN: 978-1-7281-0031-9**

**Copyright © 2019 by the Institute of Electrical and Electronics Engineers, Inc.
All Rights Reserved**

Copyright and Reprint Permissions: Abstracting is permitted with credit to the source. Libraries are permitted to photocopy beyond the limit of U.S. copyright law for private use of patrons those articles in this volume that carry a code at the bottom of the first page, provided the per-copy fee indicated in the code is paid through Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923.

For other copying, reprint or republication permission, write to IEEE Copyrights Manager, IEEE Service Center, 445 Hoes Lane, Piscataway, NJ 08854. All rights reserved.

****** This is a print representation of what appears in the IEEE Digital Library. Some format issues inherent in the e-media version may also appear in this print version.***

IEEE Catalog Number:	CFP1930U-POD
ISBN (Print-On-Demand):	978-1-7281-0031-9
ISBN (Online):	978-1-7281-0030-2

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
E-mail: curran@proceedings.com
Web: www.proceedings.com

CURRAN ASSOCIATES INC.
proceedings
.com

Table of content

A Nonparametric High-Dimensional Mean-Vector Test Method Based On Marginal Sign	1
<i>Yifan Zhang</i>	
A Graph-based Semi-supervised Fraud Detection Framework	7
<i>Rongrong Jing, Xiaolong Zheng, Hu Tian, Xingwei Zhang, Weiyun Chen, Dash Desheng Wu, Daniel Dajun Zeng</i>	
A System of Visualizing Business Chart Using Text Mining Techniques	12
<i>Qingxuan Zhang</i>	
A Two-phase Method for Solving the Hub Location and Routing Problem	18
<i>Xiao Yang, Yuan Bian, Nathalie Bostel, Pierre Dejax</i>	
Agricultural Soil Erosion and Conservaiton in China	24
<i>Zhengzheng Hao, Desheng Wu</i>	
An Empirical Study on the Comprehensive Influence Evaluation of Government Affair Weibo and WeChat Official Account Using Analytic Hierarchy Process and Principal Component Analysis	30
<i>Xu Zhang, Peng Wang, Li Zhang, Junran Dong</i>	
Antitrust of Digital Economy : Technology Spillover and Dynamic Market Regulation	39
<i>Zeja Zhou</i>	
Decision Making and Coordination of Dual Channel Supply Chain Based on Goodwill Recovery Difference	43
<i>Jingxiu Song</i>	
Design and Implementation of "One Belt, One Road" Cooperation Country Portrait Index System Based on Multi-source Data Fusion	49
<i>Xiangyu Zhang, Li Zhang, Zhi Peng Chen, Xu Zhang, Zeja Zhou</i>	
Equilibrium Analysis in Dual-channel Environment With dominant E-tailers	54
<i>Jin Zhang</i>	
Integrating Knowledge Graph into Deep Neural Network-based Recommender System	59
<i>Tongxuan Wang, Xiaolong Zheng, Saikhe He, Zhu Zhang, Desheng Dash Wu, Daniel Dajun Zeng</i>	
Measure of China's Environmental Economic Efficiency	64
<i>Bodin Singpai, Desheng Wu</i>	
Multi-Scale Volatility and External Event Analysis of Crude Oil Price Prediction	71
<i>Jiayu Yi, Yuxiang Cheng</i>	
Rent-seeking, Marketization and Real Earnings Management	77
<i>Quanbin Wang</i>	
Research on Knowledge Graph for Quantification Of relationship Between Enterprises and Recognition Of potential Risks	81
<i>Junrui Zhang</i>	
Research on Monetary Assessment of Ship Oil Spill Damage with Machine Learning Methods	86

<i>Chenhao Lu, Yuan Bian, Desheng Wu</i>	
Research on Systemic Risk Measurement Based on Factor Analysis	91
<i>Ying Kang, Yuan Bian, Desheng Wu</i>	
Research on the Co-movement of Bond and Stock Market	97
<i>Yuan Cao</i>	
Research on the Influence of Fairness Tendency on Inter Group Relationship in Urban Integration	100
<i>Jie Lu, Desheng Wu, Feng Li, Yuhong Wang</i>	
Research on the Relevance of Urban Development	104
<i>Junrui Zhang, Zhongwei Song</i>	
Shopping Guide Investment in New Retail: A Newsvendor Problem with Capital Constraint	108
<i>Yuxiang Cheng</i>	
Study on Stylized Stock Market Volatility Based on Asymmetric GARCH Model in the Main Area of BRI Region	115
<i>Paksasrun Chitpattanapaibul, Desheng Wu</i>	
The Network Environmental and Socioeconomic Efficiency Analysis of Watershed Ecological Compensation	119
<i>Junran Dong, Mingzhe Dong</i>	
The simulation of CSI 300 Index Option Pricing Based on Black-Scholes Model	123
<i>Lei Li</i>	
Using Supervised Machine Learning to Detect High-skill Mutual Fund Managers	128
<i>Weinan Zheng, Desheng Wu</i>	
Value at Risk Performance in BRICS Countries	135
<i>Desheng Wu, Chatpailin Thanyaluckpark</i>	
Why Did Polls or OPOs Get Forecast Wrong? Perceived Bias and Inference of Bias Impact	140
<i>Zheng Xie, Xiangyu Zhang, Chunyang Liu</i>	
The application prospect of knowledge graph in IPO approvals	146
<i>Yuting Liu, Lei Li, Zhongwei Song, Desheng Wu</i>	
The effect of regulation on programming strategies of radio broadcasting	150
<i>Dandan Niu</i>	