# Contents of Volume One

## Part I  Keynote Lectures

<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Constructing the Theoretical System of Comprehensive Material Flow (CMF) Engineering</td>
<td>3</td>
</tr>
<tr>
<td>Shoubo Xu</td>
<td></td>
</tr>
<tr>
<td>Decision and Process Intelligence for Services</td>
<td>5</td>
</tr>
<tr>
<td>Jan Vanthienen</td>
<td></td>
</tr>
<tr>
<td>Information Architecture in Pervasive Healthcare</td>
<td>7</td>
</tr>
<tr>
<td>Kecheng Liu</td>
<td></td>
</tr>
</tbody>
</table>

## Part II  Logistics Management

<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Discussion About the Development Strategy of Low-Carbon Logistic in Changzhutan Area</td>
<td>11</td>
</tr>
<tr>
<td>Fang Wei and Feng Ling</td>
<td></td>
</tr>
<tr>
<td>Trade Off Under Low-Carbon Economy: Ocean Shipping Vessel Speed, Carbon Emission or Shipowner’s Profit</td>
<td>19</td>
</tr>
<tr>
<td>Gang Li, Huan Xu, and Wei Liu</td>
<td></td>
</tr>
<tr>
<td>The Research of Low-Carbon Supply Chain Design of Manufacturing Firm</td>
<td>27</td>
</tr>
<tr>
<td>Fanrong Mu and Dan Chang</td>
<td></td>
</tr>
<tr>
<td>Supply Chain Disruption Assessment Based on the Perspective of Trade-off in Newsvendor Model</td>
<td>35</td>
</tr>
<tr>
<td>Li Yisong, Jia Lu, and Chen Xiaofei</td>
<td></td>
</tr>
<tr>
<td>Multi-objective Emergency Logistics Vehicle Routing Problem: ‘Road Congestion’, ‘Unilateralism Time Window’</td>
<td>43</td>
</tr>
<tr>
<td>Miaomiao Du and Hua Yi</td>
<td></td>
</tr>
<tr>
<td>Title</td>
<td>Page</td>
</tr>
<tr>
<td>----------------------------------------------------------------------</td>
<td>------</td>
</tr>
<tr>
<td>Analysis on Energy Conservation and Emission Reduction for Non-ferrous Metals Industry</td>
<td>49</td>
</tr>
<tr>
<td>Chunyan Cheng and Wenjia Yu</td>
<td></td>
</tr>
<tr>
<td>Decision Model for the Subsidies to Low-Carbon Production by the Government Under the Emission Trading Scheme</td>
<td>57</td>
</tr>
<tr>
<td>Sheng Qu, Xianliang Shi, and Guowei Hua</td>
<td></td>
</tr>
<tr>
<td>Chundi Liu</td>
<td></td>
</tr>
<tr>
<td>Empirical Analysis on Network Structure of the Inter-Regional Oil Railway Transportation</td>
<td>71</td>
</tr>
<tr>
<td>Wang Zhe and Wang Wei</td>
<td></td>
</tr>
<tr>
<td>Inventory Rationing Based on Different Shortage Cost: A Stable Inventory Demand Case</td>
<td>77</td>
</tr>
<tr>
<td>Qifan Chen and Jie Xu</td>
<td></td>
</tr>
<tr>
<td>Absolute Stability Decision Models of Supplier Selection Problem Under Uncertain Demand</td>
<td>87</td>
</tr>
<tr>
<td>Jianhua Ma and Yong Fang</td>
<td></td>
</tr>
<tr>
<td>On Optimization of Logistics Operation Models for Warehouse &amp; Port Enterprises</td>
<td>93</td>
</tr>
<tr>
<td>Junyang Li and Xiaomin Zhu</td>
<td></td>
</tr>
<tr>
<td>The Competitive Model and Simulation Research of Logistics Enterprises’ Resource Acquisition Process</td>
<td>99</td>
</tr>
<tr>
<td>Yunlong Hou, Zhenji Zhang, Qianqin Qu, and Xiaolan Guan</td>
<td></td>
</tr>
<tr>
<td>Integrated Logistics Network Design in Hybrid Manufacturing/Remanufacturing System Under Low-Carbon Restriction</td>
<td>111</td>
</tr>
<tr>
<td>Yacan Wang, Tao Lu, and Chunhui Zhang</td>
<td></td>
</tr>
<tr>
<td>Classification and Application on Food Cold Chain Collaborative Distribution Models</td>
<td>123</td>
</tr>
<tr>
<td>Hongjie Lan, Hailin Xue, and Yongbin Tian</td>
<td></td>
</tr>
<tr>
<td>Optimization of the Vehicle Route of Express Company with Multiple-Dynamic Saving Algorithm</td>
<td>129</td>
</tr>
<tr>
<td>Jun-chao Liu and Wei Liu</td>
<td></td>
</tr>
<tr>
<td>A Novel Method on Layout Planning for Internal Functional Areas of Logistic Parks</td>
<td>137</td>
</tr>
<tr>
<td>Xiaomin Zhu and Qian Zhang</td>
<td></td>
</tr>
<tr>
<td>Research on Supply Chain Disruption Risk and Its Hedge Based on Reliability Theory</td>
<td>143</td>
</tr>
<tr>
<td>Fu Shaochuan and Han Qingming</td>
<td></td>
</tr>
</tbody>
</table>
The Location-Routing Problem in the Food Waste Reverse Logistics System ........................................ 149
Shisen Li, Li Wang, Haiping Wu, and Shiqiang Bai

Application of Quality Cost and Quality Loss Function in Food Supply Chain Systems Modeling ............... 155
Tianyuan Zheng and Michael Wang

A Comparative Study on Increasing Efficiency of Chinese and Korean Major Container Terminals ............... 163
Bo Lu and Xiao Lin Wang

Evaluation on Logistics Enterprise Normalization Degree Based on Fuzzy Analysis ................................ 169
Lina Ma, Zhenji Zhang, and Xiao Xiao

Analysis of the Impact of Return Price on Competing Supply Chains ....................................................... 175
Jian Liu and Haiyan Wang

Studies on the Supply Chain Risk Management Using Complex Network ................................................. 181
Yi Cong-qin, Meng Shao-dong, and Zhang Da-min

Research on the Mode and Countermeasure of Closed Supply Chain Management about Green Agricultural Products Logistics System ........................................... 189
Xiaolin Zhang and Xiaodong Zhang

Channel Selection and Co-op Advertising in Ecommerce Age . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 195
Yongmei Liu and Yuhua Sun

The Extension of Third-Party Logistics Value-Added Services in the Financial Field ................................ 203
Chengkai Lv and Xuedong Chen

Evaluation System of the Supply Chain Stability .......... 209
Hanlin Liu and Yue Cao

Research on Circulation Efficiency Evaluation of Agricultural Products Based on Supply Chain Management ...................................................... 217
Zhao Feng

A Study of Eco-Performane of Logistics Services in Food Supply Chains ................................................... 223
Dong Li and Zurina Hanafi

Research on a Combined Port Cargo-Throughput-Forecast Model ............................................................... 229
Chi Zhang, Lei Huang, and Zhichao Zhao

Research on Dynamic Berth Assignment of Bulk Cargo Port Based on Ant Colony Algorithm .................. 235
Chunfang Guo, Zhongliang Guan, and Yan Song
Three-Level and Dynamic Optimization Model for Allocating Medical Resources Based on Epidemic Diffusion Model ............... 241
Ming Liu and Peiyong Zhang

Optimal Selling Strategy in Dual-Channel Supply Chains ............. 247
Yong He, Houfei Song, and Peng Zhang

The Optimization Model and Empirical Analysis for Vehicle Routing Problems with Time Windows Based on C-W Algorithm ........................................ 253
Lijuan Fan and Qiuli Qin

Study on the Pricing Model of China’s Parallel Rail Lines Under the Diversified Property Rights ................................. 259
Shaoni Zhou, Qiusheng Zhang, and Xiaowei Wu

Analysis and Prediction of Logistics Enterprise Competitiveness by Using a Real GA-Based Support Vector Machine .............. 267
Ning Ding, Hanqing Li, and Hongqi Wang

The Research of 3G Development Capability of Chinese Telecom Operators .................................................. 273
Sha Jing and Ding Huiping

Pricing and Coordination Research for TPL Based on Different Logistics Service Level ........................................ 279
Xuehui He, Wei Li, and Kai Nie

ERP Implementation Risk Assessment Based on Analytic Hierarchy Process .................................................. 287
Li Huang, Bing Zhu, and Bing Han

Research on Performance Evaluation of IT Projects Based on Analytic Hierarchy Process ...................................... 293
Wang Xindi, Chen Li, and Sheng Fushen

A Declarative Approach for Modeling Logistics Service Processes .................................................. 301
Ying Wang, Lei Huang, and Yi Guo

A Model for the Door-to-Airport Passenger Transportation Problem .................................................. 309
Yuan Kong, Jianbing Liu, and Ji Yang

Analysis of the Influence Factor in Urban Residents Travel Based on Rough Set Theory ...................................... 315
Liping Shao and Xiaodan Shi

Research on Management Strategies of Reverse Logistics in E-Commerce Environments ...................................... 321
Wenming Wang, Yan Liu, and Yingjie Wei
Constructing Butting Elements System Between Agro-products Market and Production Base Based on Coordination Game Theory ............................... 327
Fen Peng and Anguo Xu

Research on Logistics Distribution Networks of Online Retailers ........................................ 335
Wei Wang

Research on Two-Stage Supply Chain Ordering Strategy Optimization Based on System Dynamics ........................................ 345
Lian Qi and Lingjia Su

The Optimal Taxation of Logistics Industry in China .............. 355
Dongmei Wang, Cairong Zhou, and Hejie Sun

New Error Correction Scheme for Multi-level Optical Storage System ........................................ 365
Zhang Xiaotian, Pei Jing, and Xu Haizheng

A Study on the Performance Evaluation of Third-Party Logistics Enterprises Based on DEA ............ 373
Xu Zhang, Weixin Luan, and Quande Cai

Manufacturers’ Outsourcing Decision Based on the Quantity Competition ........................................ 379
Zhang Chi, Ai XingZheng, and Tang XiaoWo

Study on Mobile E-Commerce Business Process Optimization ...... 387
Rongxiang Li

Ordering Decision-Making Model for a Dual Sourcing Supply Chain with Disruptions .............................. 395
Jingjing Zhu and Shaochuan Fu

Establishment and Application of Logistics Enterprises’ Low-Carbon Factors Index System ..................... 401
Meng Yang and Yuan Tian

The Information Construction of Third-Party Warehousing in the Cold Chain Logistics .............................. 409
Qin Zhang, Keming Zhang, and Bohui Song

The Research on Traffic Flow Simulation and Optimization of Beijing West Railway Station ........................................ 415
Zhanping Liu and Xiaochun Lu

The Risk Assessment of Logistic Finance Based on the Fuzzy Analytic Hierarchy Process .............................. 421
Xiaolong Li and Runtong Zhang
A Queueing-Inventory System with Registration and Orbital Searching Processes .................................................. 427
Jinan Cui and Jinting Wang

Study on Warehousing Management System Information Performance Based on Analytic Hierarchy Process-Fuzzy Comprehensive Evaluation Method ........................................... 433
Bing Han, Bing Zhu, and Li Huang

Part III Service Management

Study on Simulation Method for Intersection Hybrid Traffic Flow ................................................................. 441
Yalong Zhao, Xifu Wang, Hongfeng Li, and Tingting Zhu

Study on Train Dispatching Model During Holidays ............... 447
Fei Dou, Limin Jia, Jie Xu, Yangfan Zhou, and Li Wang

How Can High Speed Railway Survive the Competition from Civil Aviation? ........................................ 453
Hongchang Li and Xujuan Kuang

Model of Passenger Route Choice in the Urban Rail Transit Network ............................................................. 463
Qiao Ke, Zhao Peng, and Qin Zhi-peng

Modeling on Dynamic Passenger Flow Distribution in Urban Mass Transit Network ........................................ 469
Xiang-ming Yao, Peng Zhao, Ke Qiao, and Wei-jia Li

Semiotics-Oriented Method for Generation of Clinical Pathways ................................................................. 477
Jasmine Tehrani, Kecheng Liu, and Vaughan Michell

Improving Mental Models Through Learning and Training – Solutions to the Employment Problem .......... 483
Xiang Kaibiao and Xian Heng

Modeling and Analyzing of Railway Container Hub Scheduling System Based on Multi-agent System .......... 493
Wang Li, Zhu Xiaoning, and Xie Zhengyu

An Integration Framework for HTML5-Based Mobile Applications ........................................................... 501
Donghua Chen and Xiaomin Zhu

Investment Risk Prediction Based on Multi-dimensional Tail Dependence Empirical Study ..................... 507
Wang-Xiaoping and Gao-Huimin
<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ticket Pricing Model for Group Passenger Based on Dynamic Programming</td>
<td>513</td>
</tr>
<tr>
<td>Gao Ronghuan</td>
<td></td>
</tr>
<tr>
<td>Barrier Identification and Removal Based on Process Analysis</td>
<td>519</td>
</tr>
<tr>
<td>Yichao Liu and Weining Fang</td>
<td></td>
</tr>
<tr>
<td>Information Technology Investment and Firm Performance in Developing Economies: The Relationship Between Management Practices and Performance</td>
<td>529</td>
</tr>
<tr>
<td>David Phiri and Fang Weiguo</td>
<td></td>
</tr>
<tr>
<td>A Comparative Study on Predict Effects of Railway Passenger Travel Choice Based on Two Soft Computing Methods</td>
<td>543</td>
</tr>
<tr>
<td>Yan Xi, Li Zhu-Yi, Long Cheng-Xu, Kang Shu, Gao Yue, and Li Jing</td>
<td></td>
</tr>
<tr>
<td>Application of Integer Programming in the Surgical Scheduling</td>
<td>553</td>
</tr>
<tr>
<td>Lihui Dai, Zhenping Li, and Liang Zhao</td>
<td></td>
</tr>
<tr>
<td>Ranking the Technical Requirements of the Airport for Maximum Passenger Satisfaction</td>
<td>563</td>
</tr>
<tr>
<td>Sema Kayapınar and Nihal Erginel</td>
<td></td>
</tr>
<tr>
<td>The Impacts of Network Competence, Knowledge Sharing on Service Innovation Performance: Moderating Role of Relationship Quality</td>
<td>569</td>
</tr>
<tr>
<td>Zhaoquan Jian and Chen Wang</td>
<td></td>
</tr>
<tr>
<td>Study on Profits Distribution of Internet of Things Industry Value Chain Led by Operators</td>
<td>577</td>
</tr>
<tr>
<td>XiYan Lv, RunTong Zhang, and Haizhou Sun</td>
<td></td>
</tr>
<tr>
<td>Equilibrium Services of Telecom Operators: An Idea of Service Resources Allocation</td>
<td>583</td>
</tr>
<tr>
<td>Mengru Shen, Feng Luo, and Jianqiu Zeng</td>
<td></td>
</tr>
<tr>
<td>A Review on Tourist Satisfaction of Tourism Destinations</td>
<td>593</td>
</tr>
<tr>
<td>Yining Chen, Hui Zhang, and Li Qiu</td>
<td></td>
</tr>
<tr>
<td>Practical Research and Establishment for Product Quality Evaluation System Based on AHP Fuzzy Comprehensive Evaluation</td>
<td>605</td>
</tr>
<tr>
<td>Xi Xi and Qiuli Qin</td>
<td></td>
</tr>
<tr>
<td>Influence of Actors in Alliance Game Based on Social Network Analysis Theory and Its Application</td>
<td>613</td>
</tr>
<tr>
<td>Yuanguang Fu</td>
<td></td>
</tr>
</tbody>
</table>
Customers’ Equilibrium Balking Strategies in an M/M/1 Queue with Variable Service Rate .......................... 619
Le Li, Jinting Wang, and Feng Zhang

Optimal Balking Strategies in Single-Server Queues with Erlangian Service and Setup Times ....................... 625
Ping Huang, Jinting Wang, and Li Fu

The Antecedents and Consequences of Service Climate in G2B e-Government Service Providers: A Case Study of China ................................................................. 631
Dongyuan Wang, Zirui Men, Hong Ge, and Yuqiang Feng

Equilibrium Analysis of the Markovian Queues with Repairs and vacations .............................................. 637
Ceng Li, Jinting Wang, and Feng Zhang

Fresh Produce Supply Chain Management Decisions with Circulation Loss and Options Contracts ............... 643
Chong Wang and Xu Chen

Analyzing Competing Behaviors for Graduate Scholarship in China: An Evolutionary Game Theory Approach .... 649
Jiang Wu, Hui Zhang, and Tiaobo He

A Risk Control Method Based on Two-Factor Theory .......... 655
Lu Ming and Fan Yunxiao

Dynamic Quantitative Analysis on Chinese Urbanization and Growth of Service Sector ................................ 663
Congjun Cheng

Research on Probability Distribution of Impulse Noise Power Correlation Coefficient in Multi-carrier Communications .......... 671
Zhu Yong

A Modeling of the Description of Urban Residents’ Traveling Decision Based on Simple Genetic Algorithm .......... 679
Chenxu Long, Jing Li, and Heping Dong

The Design of Public Information Service System Based on Public Demand .............................................. 685
Chunfang Guo and Chongying Sun

Customer Evaluation Model Based on the Catering Industry’s Supply Chain Ecosystem ............................... 691
Rui Chai, Juanqiong Gou, and Guguan Shen

A New Signal Coordination Control Model of Joint Area at the Expressway Conventional Network ................. 701
Xingqiang Zhang, Pan Chen, and Yangyang Xun
Contents of Volume Two

Part IV Information Management

A Preliminary Panel Data Study About the Progress of Media Richness .......................... 711
Vicenc Fernandez, Pep Simo, Jose M. Sallan, and Irene Trullas

Xuan Wang, Zirui Men, Hong Ge, and Yuqiang Feng

Study of Architecture of Railway Freight Station Information System Based on the Internet of Things .......................... 723
Zhiheng Sun, Lei Huang, and Linan Chen

Game Analysis and Strategy Study on Information Sharing of Grid Mobile Commerce Process .......................... 731
Danqing Li, Dan Chang, and Baowei Chen

Undergraduate Tourism Management Education in Shanghai: Are Universities Incorporating ICT? .......................... 739
Baoqing Cheng

3-D Assembly Process Information Generation Technology Based on Virtual Assembly .......................... 745
Zhang Dan, Zuo Dunwen, and Xue Shanliang

A Survey on All-IP Wireless Sensor Network .......................... 751
Quan Zhou and Runtong Zhang

Eco-Efficiency of Circular Economy Development in Hunan Province .......................... 757
Han Qinglan, Cheng Xiaojuan, and Quan Chunguang
The Linkage Between Knowledge Management Practices and Company Performance: Empirical Evidence
Nausheen Syed and Lin Xiaoyan

A Game Model of Knowledge Sharing in Logistic Alliance
Xiangdong Zhang and Jiansheng Hu

Mapping from SHOIN(D) to Basic-Element and Complex-Element of Extenics
Wen Bin and Gan Jian-hou

An Ontological Approach to Personalized Medical Knowledge Recommendation
Huiying Gao, Xiuxiu Chen, and Kecheng Liu

An Evidential Reasoning Method for Multiple Attributive Group Decision Making Under Linguistic Setting
Ming Li, Chen Yu, and Zhengwei Ma

The Evolution of Technical Cooperation Networks: A Perspective from Complex Network Theory
Ruize Gao, Zhenji Zhang, Dongpo Xiao, and Xiaolan Guan

Research on Customer Classification of Beijing-Tianjin Passenger Dedicated Line Based on Customer Value
Yutian Song and Yu Zhao

Zhuo Guo, Jianzhong Qiao, and Shukuan Lin

On the Satisfaction Survey and Sustainable Development of NRCMS Under the Background of New Medical Reform – From the Perspective of Stakeholder of Nonprofit Organization
Weizhen Yu and Guowei Wan

Study on Degree Change and Approaches of GEM Earnings Management
Xiao Xiang, Xue Feng, and Yue Yao

A Model of Targeted Advertising Based on Consumer Purchase History
Jianqiang Zhang, Weijun Zhong, and Shue Mei

Effects of Quality Improvement in a Mobile Value Chain with Duopoly MNOs
Li-li Jiang, Shu-e Mei, and Wei-jun Zhong

ASME Evaluation on the Process of Mobile E-commerce Based on Grid Management
Wei Liao and Dan Chang
The Construction and Simulation of Mobile Commerce Process Based on Grid Management .......................... 859
Dan Chang, Danqing Li, and Wei Liao

Interorganizational IT Capability in China: Exploring the Differences Between State-Owned and Non-State-Owned Enterprises .............................................. 865
Jin-Nan Wu, Lin Liu, Nianxin Wang, and Zhining Wang

Analysis of Urban Road Intersection Model Based on Cellular Automaton ........................................ 875
Dou Shuihai, Li Xuemei, Gou Juanqiong, and Li Xuewei

A Study of Courier Service Quality Improvement Based on a Two-Stage QFD ................................. 885
Baoqin Yu, Shuo Zhang, Shuping Wu, and Jin Xie

Integrating Local E-Governments of China to Provide Better Public Services Based on Cloud Computing ............ 893
Jian Liang and Haihe Jin

Operational Mode of Intelligence Living Space .................. 899
Lili Huang and Xuedong Chen

Analysis and Calculation of Read Distance in Passive Backscatter RFID Systems ...................................... 905
Yanghua Gao, Zhihua Zhang, Hailiang Lu, and Huanwen Wang

A Cloud Framework for Electronic Commerce Applications .... 913
Guigang Zhang, Chao Li, Yong Zhang, Chunxiao Xing, and Jijiang Yang

An Intelligent Campus Space Model Based on the Service Encapsulation ............................................. 919
Ying Chen, Runtong Zhang, Xiaopu Shang, and Shouyi Zhang

A Simulation Model for Container Terminal Dynamic Operation System Using Real-Time Positioning Approach ................................................................. 925
Bo Lu and Dan Wang

Applying RFID and GPS Tracker for Ensuring Cargo Transportation Security ................................. 931
Ruijian Zhang

Semantic++ Digital Library Service Framework in the Cloud Environment .......................................... 937
Guigang Zhang, Chao Li, Yong Zhang, Chunxiao Xing, and Jijiang Yang
Research on Training Performance Evaluation System of Telecom Industry Talents ........................................ 943
Li kaixin

Task Scheduling Policy Based on Ant Colony Optimization in Cloud Computing Environment .................................. 953
Lin Wang and Lihua Ai

The Design and Application of Low-Cost Smart Home Under the Internet of Things and Cloud Computing Platform ........ 959
Xiaoling Wei and Qiuli Qin

An Evaluation Framework for Migrating Application to the Cloud: Software as a Service .............................. 967
Chekfoung Tan, Kecheng Liu, Lily Sun, and Cameron Spence

Research on Web-Aware Under the Environment of Cloud Computing .......................................................... 973
Ya Li, Runtong Zhang, Xiaopu Shang, and Dandan Li

Humanism Design of Road Intersections Based on Integration of Hierarchical Modeling .................................. 979
Shuyan Guo and Juanqiong Gou

Research on the Integration Information Platform of High Quality Teaching Resources in Beijing Universities Based on the Cloud Storage ................................................................. 985
Shugang Zhang, Zhenji Zhang, and Xiaolan Guan

Game Analysis on Trade Diversion Effect of China’s Anti-dumping .............................................................. 995
Chundi Liu

Study on Tourist Perceptions of Urban Tourism Brand Image in Ningbo ......................................................... 999
Libing Shu and Haolan Zhang

The Research of Improved Apriori Algorithm ............................................................................................ 1007
Bi Xujing and Xu Weixiang

The Operation Problem of Smart Vending Machine Systems ................................................................. 1013
Yang-Byung Park and Jun-Su Yoo

The Influence of Hotel Organizational Career Management on Career Competencies .................................. 1019
Haiyan Kong

Price Competition Model in Centralized and Decentralized Supply Chains with Demand Disruption ............. 1025
Wenlong Chai, Huijun Sun, Wei Wang, and Jianjun Wu
<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Difference Analysis of the Business Model of Economic Circle of Railway Station</td>
<td>1033</td>
</tr>
<tr>
<td>Jinjin Fu and Xiaochun Lu</td>
<td></td>
</tr>
<tr>
<td>Analysis of Transportation Producers’ Economic Benefits in Overload Controlling</td>
<td>1041</td>
</tr>
<tr>
<td>Wei Wang and Dong Mu</td>
<td></td>
</tr>
<tr>
<td>Forecast of Food Refrigerated Warehouse in Beijing</td>
<td>1047</td>
</tr>
<tr>
<td>Hongjie Lan, Yongbin Tian, and Jinshi Wei</td>
<td></td>
</tr>
<tr>
<td>Commitment Contract in Dual Channel Drop Shipping Supply Chain</td>
<td>1053</td>
</tr>
<tr>
<td>Jinshi Zhao, Yongrui Duan, Shijin Wang, and Jiazhen Huo</td>
<td></td>
</tr>
<tr>
<td>Qin Ran, Chang Dan, Sun Qing, and Wu Bin</td>
<td></td>
</tr>
<tr>
<td>Improvement of Traceability Processes in the Farmed Fish Supply Chain</td>
<td>1065</td>
</tr>
<tr>
<td>Alfredo Parreño Marchante, Alejandro Álvarez Melcón, Mira Trebar, Andrej Grah, and Piero Filippin</td>
<td></td>
</tr>
<tr>
<td>Research of Regional Logistics Intelligent Information Platform Based on Internet of Things</td>
<td>1071</td>
</tr>
<tr>
<td>Zou Chenguang and Zhang Meiqing</td>
<td></td>
</tr>
<tr>
<td>Combined Evaluation of Logistics Service Providers Based on Correlation</td>
<td>1077</td>
</tr>
<tr>
<td>Qiu Heting, Li Xuemei, and Li Xuewei</td>
<td></td>
</tr>
<tr>
<td>Research on the Driving Force Mechanism of Ecosystem of Cyber-Society Based on the ISM</td>
<td>1083</td>
</tr>
<tr>
<td>Xiaolan Guan and Zhenji Zhang</td>
<td></td>
</tr>
<tr>
<td>Business Model Analysis for Chinese Social Networking Website</td>
<td>1091</td>
</tr>
<tr>
<td>Jingyi Yang</td>
<td></td>
</tr>
<tr>
<td>Pricing Decision Analysis for Information Services of the Internet of Things Based on Stackelberg Game</td>
<td>1097</td>
</tr>
<tr>
<td>Lijun Mei, Wei Li, and Kai Nie</td>
<td></td>
</tr>
<tr>
<td>Campus One-Card System Design</td>
<td>1105</td>
</tr>
<tr>
<td>Wang Longjie</td>
<td></td>
</tr>
<tr>
<td>Information Construction of Port Logistics Park</td>
<td>1117</td>
</tr>
<tr>
<td>Zhen Liu and Runtong Zhang</td>
<td></td>
</tr>
</tbody>
</table>
The B2B2C Integrated E-Commerce Model Design Based on SaaS .......................... 1123
Zhao Li and Li Xiaolong

The Analysis to the Logistics Mode Decision of B2C ......................... 1129
Xiao Xiao, Yu Liu, Zhenji Zhang, and Xiaolan Guan

Service-Oriented Catering Supply Chain Performance Evaluation Model ............. 1135
Guguan Shen, Juanqiong Gou, and Rui Chai

Drag Effects of Urban-Rural Digital Divide on Urbanization: Evidence from China’s Panel Data ............................................ 1141
XingLong Xie and DeWei Qi

Part V Engineering Management

The Research of Transaction Costs Between Real Estate Developers and Their Partners .................. 1151
Zhenzhen Xie, Jingjing Yin, and Jingjuan Guo

A Dissimilarity Measurement Method for Hierarchy Variable with Different Structures ...................... 1157
Zhao XiuLi

Research on Competency and Relationship Between Competency and Performance of Teachers in Research Universities .............. 1163
Xu Anguo

The Decision-Making Model for Aviation Project’s Supplier Selection Based on Improved TOPSIS .................. 1171
Meng Zhao and Rong-rong Ren

The Measurement of Complexity of Organization Coordination Network of Major Scientific and Technological Projects ........ 1177
Xin Wen He, Yan Wang, and Xiao Hong Chen

The Operation Research on Authority-Linked Management Model of Organization Coordination Network of Major Scientific and Technological Project .................. 1185
Xin Wen He, Yan Wang, and Guang Ming Hou

Study on the Real Estate Credit Risk Based on System Dynamics .................. 1191
Jingjing Yin, Zhenzhen Xie, and Jingjuan Guo
Part VI  Theory of Industrial Security and Development

The Cost Analyses of Straw Generating Electricity and Straw Rational Utilization .......................... 1199
Tianshu Li

The Security of Industrial Distribution in Resource-Based Regions: A Case Study of Inner Mongolia .................. 1205
Dong Tong and Kai Zheng

Potentials of Forest Bioenergy in China Based on Forest Ecological Security ........................................ 1211
Lan Zhang and Caihong Zhang

A Knowledge-Based Fast Recognition Method of Urban Traffic Flow States ........................................ 1217
Ling Wang

Qualitative and Quantitative Evaluation of the Security Degree for Chinese Iron and Steel Industry .................. 1223
Zhucui Jing, Menggang Li, Hanxiang Xu, and Yiduo Mei

Price Regulation Mode Selection of Electric Power Industry in China ..................................................... 1229
Hanchun Wang and Kai Zheng

Part VII  Tourism Management

Spatial Changes in the Structure of Capital Region in China .......... 1239
Naihui Zhou and Ping Yin

Status and Prospect of Tourism Education in China ................. 1245
Linsheng Zhong, Junhui Qi, and Chengcai Tang

Estimation of the Energy Consumption in Tourism Industry of Beijing City ............................................. 1253
Ling Feng and Lu Cheng

Cultural Landscape Evolution Under Rapid Urban Development: A Case Study of Shichahai Historical Area in Beijing, China .......... 1259
Mingdi Tang and Tongchun Chen

Analysis of Breakthrough Pathway for Further Development of Regional Tourism Cooperation ...................... 1265
Xuefeng Wang and Hui Zhang

Information Technology Application in Tourism Distribution Channels in China ............................................. 1271
Ping Yin
Spatial Strategic Research on Tourism Development of Bohai Circle .......................................................... 1277
Zheng Wei

Part VIII Advanced Research on Logistics/Supply Chain Management

Research on Revenue Sharing Contract in Retailer-Leading Supply Chain .................................................. 1285
Ying Qu, Fang Wang, and Feng Liu

Distribution Network Optimization Analysis for Chinese E-commerce Enterprise .................................. 1291
Hanqing Li, Yihong Ru, Ning Ding, and Huanyu Qin

Research of Crop Risk Factor Data Acquisition Technology Based on GSM ...................................... 1297
Shudong Zhang, Yannan Wang, Beibei Gao, and Naiming Yao

Supply Chain Risk Evaluation Model in Fuzzy Environment ................................................................ 1305
Ruijiang Wang, Xiaoxia Zhu, and Fachao Li

Part IX E-infrastructures and Technology

A Technology Acceptance Model for E-health Services for the Elderly Population in China .................. 1315
Qiao Peng, Su Hong, and Jeffrey Soar

The EUChinaHealthCloud Project Towards Open Science in the Twenty-first Century .................. 1321
Ying Su, Carlos Morais Pires, and YunPing Li

Children’s Mental Health Evaluation Using Chemical Sensor ......................................................... 1327
Jiahui Wei, Chunlin Xin, Yajie Wang, and Jihong Ni

How Are You? The Next Generation E-Health Platform ................................................................. 1333
Dawson King, Bo Zhou, Ying Su, and Guangqiang Liu

An Ontology Model for User-Centered e-Government in China ....................................................... 1339
Jun Zhao, Hong Su, YanHui Dong, and Zhiyong Zhang

Evaluating Information Quality Dimensions in e-Government Services ............................................ 1345
Ying Su, Li YunPing, and Yu Xingliang
### Part X  Modeling and Its Application for Network Information Management

<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Application of Vague Set in Recommender Systems</td>
<td>1353</td>
</tr>
<tr>
<td>Cui Chunsheng, Zang Zhenchun, Liu Feng, and Qu Ying</td>
<td></td>
</tr>
<tr>
<td>The Arc Learning Algorithm Based on Extended Functional Dependency</td>
<td>1361</td>
</tr>
<tr>
<td>Ying Qu, Jingru Wu, Shuai Li, and Yanan Wang</td>
<td></td>
</tr>
<tr>
<td>A Linear Programming Approximation for Network</td>
<td></td>
</tr>
<tr>
<td>Capacity Control Problem with Customer Choice</td>
<td>1367</td>
</tr>
<tr>
<td>Feng Liu, Ying Qu, and Yanan Wang</td>
<td></td>
</tr>
<tr>
<td>Research for a Query and Analysis System of Legal Affairs</td>
<td>1375</td>
</tr>
<tr>
<td>Information Based on Cloutning Computing</td>
<td></td>
</tr>
<tr>
<td>Chen Wang and Lele Qin</td>
<td></td>
</tr>
<tr>
<td>Operation Entropy-Based Method for Evaluating Purchase</td>
<td>1381</td>
</tr>
<tr>
<td>Mode of Supermarket Vegetable</td>
<td></td>
</tr>
<tr>
<td>Wei Pang, Keming Zhang, and Bohui Song</td>
<td></td>
</tr>
</tbody>
</table>

### Part XI  Modeling Methods for Logistics Systems and Supply Chain

<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>An Integrated Optimization Model of a Closed-Loop Supply Chain Under Uncertainty</td>
<td>1389</td>
</tr>
<tr>
<td>Xiaoxia Zhu and Xiuquan XU</td>
<td></td>
</tr>
<tr>
<td>The Analysis Based on the Two Main Applications of Artificial Bee Colony Algorithm</td>
<td>1397</td>
</tr>
<tr>
<td>Yanfei Wang, Jun Xie, and Zhengguang Xian</td>
<td></td>
</tr>
<tr>
<td>Management Platform Architecture of Modern Tobacco Logistics Based on Internet of Things Technologies</td>
<td>1403</td>
</tr>
<tr>
<td>Jia Jiang and Kai Su</td>
<td></td>
</tr>
<tr>
<td>Public Panic Behavior Based on Food Safety Incidents: A Case of Additive</td>
<td>1411</td>
</tr>
<tr>
<td>Shan Lijie, Zhong Yingqi, and Wu Linhai</td>
<td></td>
</tr>
<tr>
<td>Representative Artificial Bee Colony Algorithms: A Survey</td>
<td>1419</td>
</tr>
<tr>
<td>Zhengguang Xian, Jun Xie, and Yanfei Wang</td>
<td></td>
</tr>
</tbody>
</table>

### Part XII  Integrated Service Management

<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>An Analysis on Agricultural Insurance Subsidy Resource Allocation: A Principal-Agent Perspective</td>
<td>1427</td>
</tr>
<tr>
<td>Shuxin Zhao</td>
<td></td>
</tr>
</tbody>
</table>
Second Innovation Process Based on Extension Engineering Method .................................................. 1435
Zhenchun Zang and Ying Wang

Application of TOPSIS Method on Evaluating Campus Emergency Management Capacity .................. 1445
Yanan Wang, Huizhen Kong, Feng Liu, and Ying Qu

A Study of the Motor Vehicle Parking Management in China’s Major Cities .................................... 1451
Xinqiao Xiao

Markov Chain Analysis and Prediction on the Fluctuation Cycle of Vegetable Price ............................. 1457
Xiaoxia Zhu, Xueling Liu, Lichun Bao, and Xiuquan XU

Research on Information Management Platform of Logistics Parks Based on Cloud Computing ............. 1465
Lele Qin and Xiaoxia Zhu
LISS 2012
Proceedings of 2nd International Conference on Logistics, Informatics and Service Science
Zhang, Z.; Zhang, R.; Zhang, J. (Eds.)
2013, XXXVI, 1470 p. 322 illus. In 2 volumes, not available separately., Softcover
ISBN: 978-3-642-32053-8