TABLE OF CONTENTS

I-LOGISTICS POLICY AND STRATEGY

Quantitative Regional Environmental Risk Assessment of Railway Dangerous Goods Station ................................................................. 1
Zhe Wang, Yan Chang

Application of Catastrophe Theory in Customer Satisfaction Evaluation of the Third-Party Logistics Enterprise ................................ 9
Ling Zhou, Rongfang Li

Research on Route Choice of Logistics Transportation in Urban Traffic Networks ................................................................. 16
Jianling Wang, Xiaoguang Yang, Jianzhong Wang

Location Model of Risk Pooling with Variable Construction Costs Based on Compensation and Punishment Policy ................... 21
Fei Wang, Liping Wang, Tao Jia

Reform and Pilot Study of Survey Methodology for Road Freight Transport ......................................................................................... 27
Hongxia Guo

The Impact of Jiangxi Regional Industries on Local Logistics Demand Using Grey Relational Analysis ............................................. 35
Qishui Chi

Granger Causality Test on the Interaction between Logistics Development and Economic Growth ....................................................... 43
Youli Xu, Beiwei Pan

Building a Third-Party Recycling Platform for E-Waste Recycling through an Extended Producer Responsibility Framework ................................................................. 49
Lin Wang, Mingyi Wei

Forecasting Regional Logistics Demand of Agricultural Products Logistics Park in YuHang County Based on Artificial Neural Network ..................................................................................................................... 55
Hong Li

Research on the Transportation Demand Prediction with Land Use Model ......................................................................................... 61
Li Luo

Research on the Spreading Effects from Modern Logistics Industry—A Case Study in Henan Province .................................................... 69
Lin Wang, Mingyi Wei

Research on Building Mode of Distribution Centers Based on Flexible Strategy ........................................................................... 76
Chenglin Wang, Weiye Wang, Liyuan Xie

Factor Analysis and Countermeasures in the Development of Chinese Logistics Industry ......................................................................................... 85
Hong Li

Research on Cost Allocation Problem of Collaborative Distribution Based on 3PL Enterprise ............................................................. 92
Xiaoyun Zhuang, Yuxia Wang, Yuancun Huang, Hongying Tian

The Development of Logistics and Industrial Agglomeration ................................................................................................................. 98
Jianzhong Zhang, Wei Tan

Study on Evaluation of Coordinated Development between Transportation System and Socio-Economic System ............................. 105
Huiyan Zhang, Yanlin Wang, Changfeng Xu

Mixed-Integer Programming Model of Urban Emergency Logistics Facilities Location under Unconventional Emergency ................................................................................................................................. 112
Guang Li, Jin Zhang, Siqiu Liu

Empirical Analysis of Regional Logistics Growth and Differences in China ........................................................................................... 120
Wei Tan, Jianzhong Zhang

Vehicle-Bridge Dynamic Analysis of Jinsha River Bridge on Chengdu-Guiyang Passenger Dedicated Railway ........................................ 127
Shengcai Cui, Zhigang Huang, Bing Zhu, Fengcai Bai

A Durability Choice Model of Durable Goods Supply Strategy ............................................................................................................. 134
Hao Su, Deqing Tan, Guangyao Cui, Wenlai Xu

Dispersed Cement Manufacturing Process Constructs Healthy Logistics System of Cement ................................................................. 142
Hongqiang Yang, Yuling Li, Linjie Zhao

Chuanhe Shen, Xiangrong Wang

Guarantee Mode Analysis of Shuohuang Railway Logistics Operation System ......................................................................................... 156
Qiuping Liu, Daqiu Li

Optimization of Emergency Rescue Material Dispatching ................................................................................................................... 162
Yaojun Feng, Rongxin Tan, Zhiqian Tian

Research on Station and Line Capacity Coordination in Railway Terminal Based on the Entropy Model ................................................ 169
Jie Chen, Jun Zhao, Zhi Li

Study on Decision-Making for Operation Mode of Bus Rapid Transit .................................................................................................. 177
Huaishan Wang

Application Research on Theory of Constraints in Distribution System ............................................................................................. 183
Huaixiong Liu

Research on the Countermeasures of Unbalanced Value Target of Chinese Companies ................................................................. 190
Xiaojun Wang, Ya Liu

Prediction of the Goods Transport Quantum of China-Korea Railway Ferry .......................................................................................... 196
Jiayu Li, Jin Zhang
<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Study of the Influencing Factors of Emergency Logistics Based on DEMATEL Method</td>
<td>447</td>
</tr>
<tr>
<td>Analysis of the Effects of Fuel Tax on Chinese Logistics Industry by System Dynamics</td>
<td>456</td>
</tr>
<tr>
<td>Research on the Supplier Evaluation Model Based on Preference Constraint Cone</td>
<td>465</td>
</tr>
<tr>
<td>Research for Environmental Logistics Implementation of Petroleum Companies</td>
<td>473</td>
</tr>
<tr>
<td>Research on Construction of Statistical Accounting System of Tianjin Logistics Industry</td>
<td>480</td>
</tr>
<tr>
<td>Construction of Symbiotic Synergistic Mode of Forest Fruit Industry and Cold Chain Logistics in China</td>
<td>487</td>
</tr>
<tr>
<td>Sanmenxia Logistics Park Planning and Study on Development</td>
<td>495</td>
</tr>
<tr>
<td>Freight Volume Prediction of Coal Transportation from Xinjiang Based on Grey-Markov Chain Method</td>
<td>502</td>
</tr>
<tr>
<td>Study on the Logistics Industry Agglomeration in Chongqing</td>
<td>509</td>
</tr>
<tr>
<td>Research on Urban Vulnerability in Emergency Logistics System of Sudden Public Events</td>
<td>515</td>
</tr>
<tr>
<td>Research for Advanced Public Transport Solutions Based on the IOT</td>
<td>522</td>
</tr>
<tr>
<td>An Optimal Model and Solution Algorithm of Urban Traffic Network Considering Exhaust Emission Control</td>
<td>528</td>
</tr>
<tr>
<td>Research on the Coordination Evaluation System of Land Use and Urban Rail Transit</td>
<td>535</td>
</tr>
<tr>
<td>Study of Logistics Parks Layout Planning in Medium-Sized Cities</td>
<td>542</td>
</tr>
<tr>
<td>Research into Innovative Modular Design in the Logistics System</td>
<td>549</td>
</tr>
<tr>
<td>Research on Pricing Strategy of Perishable High-Tech Products Based on Reverse Logistics</td>
<td>557</td>
</tr>
<tr>
<td>Research on Linkage Development between Manufacturing and Logistics Industry—Based on Gray Correlation Analysis</td>
<td>564</td>
</tr>
<tr>
<td>Establishment of Competitiveness Evaluation Index System of Port Logistics in Bohai Economic Rim</td>
<td>571</td>
</tr>
<tr>
<td>Research on Innovative Product Design for Service and Logistics</td>
<td>577</td>
</tr>
<tr>
<td>Study on Integrated Green Logistics Management Model and Investment-Benefit Model of Logistics Enterprise</td>
<td>586</td>
</tr>
<tr>
<td>Study on the Railway Container Corridors between Rail Container Logistics Centers after Passenger Dedicated Lines Network Built</td>
<td>594</td>
</tr>
<tr>
<td>Planning of Vehicular Parking Lot at Logistics Parks</td>
<td>605</td>
</tr>
<tr>
<td>Study on Factors Influenced the Choice of Reverse Logistics Take-Back Models</td>
<td>611</td>
</tr>
<tr>
<td>The Relationship between Regional Logistics and Economic Growth Based on Panel Data</td>
<td>621</td>
</tr>
<tr>
<td>Air Cargo Route Network Research Based on Hub-and-Spoke System</td>
<td>627</td>
</tr>
<tr>
<td>Appraisal of Regional Logistics Development in China</td>
<td>635</td>
</tr>
<tr>
<td>Study on Logistics Mode of Furniture Industry Based on the Low-Carbon Concept</td>
<td>640</td>
</tr>
<tr>
<td>Study on Safety Impact Factors of New Tour Project for the Mountainous Areas in the Southwest of China</td>
<td>647</td>
</tr>
<tr>
<td>Study on Passenger Car Equivalents Based on the Emissions</td>
<td>654</td>
</tr>
<tr>
<td>VAR Model Analysis of Logistics Development and Economic Growth in Sichuan Province</td>
<td>660</td>
</tr>
<tr>
<td>Symbiotic Effect of Regional Logistics and Industry Clusters</td>
<td>669</td>
</tr>
<tr>
<td>Green Contribution Evaluation Model of Port to City</td>
<td>676</td>
</tr>
<tr>
<td>A System Dynamics Model of the Interaction between Port and City Based on the Green Concept</td>
<td>684</td>
</tr>
<tr>
<td>Logistics Project Investment Decision Methods Based on Option Pricing Model</td>
<td>692</td>
</tr>
</tbody>
</table>
A Study on the Determinants of Regional Growth Differences in China’s Circulation Industry—Empirical Analysis Based on Stochastic Frontier Model .......................................................... 699
Quiang Wang, Teqiu Zheng

Effect of Urbanization on the Development of Circulation Industry: An Empirical Study .................................................. 706
Na Yi
Impact of TBT on Chinese Export of Citrus Fruits .......................................................................................................................... 714
Yaxing Wang, Qi Men

New International Logistics Corridor through Building an Undersea Tunnel in Northeast Asia .............................................................................. 722
Congxian Xu, Haqiu Lu

The Decision-Making of Constructing Traceability System for Fresh Agricultural Products .................................................. 729
Yu Li, Min Mao, Kun Wang

A Two-Level Model for Police Patrol Problem with Emergency Responses ........................................................................... 737
Zhiyuan Su, Yu Fu, Yukun Liu

Multi-Agent Based Regional Logistics Transport Mode Subsidiary Decision System under Comprehensive Transportation Environment ........................................................................... 744
Maolin Wang, Binglian Liu

Reliability Analysis of Two Kinds Take-Back Models in Reverse Logistics ............................................................................. 751
Jing Zhang, Gongqian Liang, Hui Li

Analysis about the Effectiveness of Farmer Professional Cooperative Organizations As the Main Part of China Agricultural Product Logistics .................................................................................................................. 765
Guifan Lou

Model Research on Route Choice of Flammable and Explosive Goods by Road Transport ............................................................................. 772
Pengfei Yue, Ruifang Mou

Acquisition Strategy of Retailer on Category Management ...................................................................................................................... 780
Changsong Ma, Junmin Lu, Wenbin Fu, Kan Song

Logistics Research and the Town System of Historic Chengdu Area: View from the Point of Central Place Theory .................................................. 787
Wei Zhao, Jiao Yang

A Method to Calculate the Bearing Capacity of Traffic Environmental System of Logistics Park .................................................................... 794
Qiuqiang Liang, Xianting Ma, Jian Ye

Based on DHGF Model of Risk Management for Logistics Park ...................................................................................................................... 801
Ying Zhou

Research on the EMSR-b Capacity Allocation Based on Customer Choice Behavior .................................................................................. 808
Ying Zhou

Research on the Development Opportunity of Logistics Enterprise under the Background of Expanding Internal Demand—A Case Study of Shantou City ............................................................................................................. 817
Chao Chen, Xichun Wang

Logistics Service Integrator Selection Based on Grey Hierarchy Evaluation .......................................................................................... 824
Meiling He, Jin Zhang, Ke Huang, Xiaohui Wu

Study on Life Cycle of Logistics Industry .................................................................................................................................................. 831
Hang Chen, Yuewei Wang, Haiying Wang

Tangshan Port Logistics Model and Its Development Countermeasures .............................................................................................. 839
Jingchen Xu, Xiaochun Gao

Evaluation about Regional Logistics Efficiency—A Case Study of 31 Regions in Eastern China .................................................. 846
Zhongqiang Zhang, Bing Zhang

Research of Logistics Strategic Alliance Based on Lifecycle ...................................................................................................................... 853
Hongyan Li, Xiaojie Wu

Inventory Management Strategy of Retail Trade on Revenue Management ...................................................................................... 861
Changsong Ma, Hua He, Laiyue Xun

Research on the Decision of Retail Logistics Modes .............................................................................................................................. 868
Yao Pan, Zhongyong He, Xiong Zhang

Research on the Reward and Punishment Feedback Contract Based on Asymmetric Information under the “Company + Farmer” Model .................................................................................................................................................. 874
Beibei Zhao, Yong Zhang, Jian Li

Research on Emergency Management Model of Hazardous Material Logistics Based on HHM ................................................................ 883
Yuzhong Mao, Guangming Yang

Research on Employees’ Psychological Capital Development and Evaluation—Based on Chinese Ten Port Companies .................................................................................................................................................. 890
Qiuning Zhang, Liang Kong

A Model of Regional Logistics System with Multi-Level Hub-and-Spoke Network Based on Regional Economy .................................. 897
Qin Liu, Feng Hai, Gang Liu

Research on Present Situation and Countermeasures of Energy Conservation and Emissions Reduction in Logistics Industry ...................................................................................................................... 903
Bo Zhang

Eco-Industrial Park Green Logistics System Green Degree Evaluation ................................................................................................. 910
Mancui Wu, Linting Yong

Research on Centralized-Distributed Mode of Materials Management of Property Rights Relationship-Based Manufacturing Enterprise ...................................................................................................................... 917
Aizu Chen, Wen Tang, Zheng Cao, Lin Wu
<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diversion Strategies for Commercial Vehicle Using Real-Time and Future Traffic Information</td>
<td>925</td>
</tr>
<tr>
<td>Hao Wang, Derhong Lee, Buey (Kelvin) Chen</td>
<td></td>
</tr>
<tr>
<td>Analysis of Barrier Factors Affecting Government Procurement Based on ISM</td>
<td>934</td>
</tr>
<tr>
<td>Guotao Ji</td>
<td></td>
</tr>
<tr>
<td>Research on Channel Coordination Involving Competing Retailers with Demand Stimulating Effort</td>
<td>944</td>
</tr>
<tr>
<td>Wei Tian</td>
<td></td>
</tr>
<tr>
<td>II - INFRASTRUCTURE AND EQUIPMENT OF LOGISTICS</td>
<td></td>
</tr>
<tr>
<td>Analysis on DEA Efficiency of Diversified Railway</td>
<td>1137</td>
</tr>
<tr>
<td>Lipeng Feng, Guohua Zhou</td>
<td></td>
</tr>
</tbody>
</table>
Analysis on the Scale of Input-Output in Diversified Railway Logistics under the Administrative Monopoly’s Influence .................................................................................................................................. 1143
Lipeng Feng, Guohua Zhou
Risk Assessment during Logistics Project Management Based on Fuzzy Comprehensive Evaluation .......................................................................................................................... 1150
Guomiao Bu, Bowen Zhang, Rui Zhu
Study on the Reverse Logistics Network Optimization of Home Appliances Recycling .................................................................................................................................. 1157
Jun Zhang, Lianning Zhao
A Location-Routing Model on Relief Distribution Centers in Earthquake Disasters ............................................................................................................................ 1165
Shaowen Wang, Zujun Ma, Ying Feng
Research on the Process of Restructuring the Development Mode of Highway Freight Terminal .................................................................................................................. 1173
Min Mao, Kan Wang
Supplier Selection of End-of-Life Vehicles in Reverse Logistics with Extended Producer Responsibility ........................................................................................................... 1180
Tuanying He, Tianshun Ma
Application of Erlang Queuing Model in Distribution Center Design .............................................................................................................................. 1187
Wenxing Ran, Dongfeng Zhao, Zhiyuan Song, Ke Wang
Stochastic Space Vibration Analysis of Train-Bridge Time-Varying System .......................................................................................................................... 1197
Yan Zhu, Xiaolu Chen
Coupled Analysis Method of High Speed Railway Bridge Interaction with Passenger Vehicle ........................................................................................................... 1205
Fengtao Bai, Shengai Cui, Bing Zhu
Contact Analysis of Interaction between Beam and Bearing in Cable-Stayed Bridges .......................................................................................................................... 1213
Bing Zhu, Fengtao Bai, Bo Chen, Che Tang
Analysis on Dynamic Performance of High-Speed Railway Piers in China .......................................................................................................................... 1221
Yadong Li, Huaqing Nie, Ming Zhu
Simplified Method for Ductility-Based Seismic Design of Railway Rectangular Hollow Pier ........................................................................................................... 1227
Huaqing Nie, Yadong Li, Guangyang Yang
Dynamic Control for the Risk of Value in the Loans of Warehouse Receipt Collateral Based on CVAR ........................................................................................................... 1235
Zhigang Guo, Jing Zhang
Fuzzy Variable Set Model to Evaluation of Highway Traffic Safety .............................................................................................................................. 1241
Shangyang Yang, Longyan Zhang
Experimental Research and FEM Analysis of Steel Corbel in Pylon Cable Anchor Zone of Cable-Stayed Bridge ........................................................................................................... 1248
Guangguang Bai, Guangyao Tang, Hengge Gou
Design of a Railway Pallet Pool Information System on Grid .............................................................................................................................. 1255
Jianwei Ren, Xueyan Zhang, Jin Zhang, Peng Wang
Co-Integration Model of Logistics Infrastructure Investment and Regional Economic Growth in Central China .......................................................................................................................... 1262
Kai Hu, Xiaoxing Gan, Kuo Gao
Research on the Overbooking Problem of Passenger Dedicated Line in China .............................................................................................................................. 1269
Ranxiang Yan, Tuoqian Feng, Zhigang Tian
Study of the Dynamic Characteristics of the CNC Machine Tool Which Guarantees the Flexible Manufacturing of Logistics .......................................................................................................................... 1276
Wenlin Liu, Bo Yu, Lifeng Yang
Research on the Safety Characteristic of Continuous Downgrade Segment in Two-Lane Highway .............................................................................................................................. 1283
Tiejin Zhang, Dan Liu, Xiaoyi Mi
Research on Adaptability of Flow Control Strategies for Expressway On-Ramp Pre-Timed Control .......................................................................................................................... 1293
Jinghui Wang, Xiaoxiang Yang, Yu Bai, Xinyi Yang
Research on the Evolvement Mechanism and Model of Urban Passenger Traffic Corridor System .......................................................................................................................... 1300
Ke Chen, Yali Guan, Chen Zhang, Lin Du
Logistics Effect Field on the Role of Spatial Agglomeration in the Logistics Corridor .............................................................................................................................. 1307
Huimin Ge, Long Chen, Weiwei Zhou
A Seismic Analysis on Low-Burying Twin-Arch Double-Deck Urban Tunnel .............................................................................................................................. 1314
Guangyao Cai, Hao Su, Yang Zhang
Study on the Kinematics Analysis and Control System at Palletizer .............................................................................................................................. 1320
Dachun Li, Lei Xiao, Ke Wang
Optimization Design of Cross-Section Configuration of Four-Track Tunnel Based on Toolbox of Matlab .......................................................................................................................... 1328
Haiqian Zhang, Mingfeng Wu, Wenge Qiu
Comparison between ATC and ATCS in Parallel Machine Scheduling .............................................................................................................................. 1335
Yanru Li, Qin Yang, Guohua Zhou, Xi Zhao
Development of the Information Exchange Platform for Logistics Agencies .............................................................................................................................. 1342
Bing Chen, Xiaoning Wen
Studying Delivery Travel Time Reliability Based on Traffic Flow Fluctuations .............................................................................................................................. 1349
Fuzhi Li, Lei Xiao, Ke Wang
Study on Pivotal Factors to Breaking Torque of Hydrodynamic Retarder .............................................................................................................................. 1356
Jiangang Huang, Changyong Lu, Zhaochen Ling, Yingying Chen, Xingzuo Ma
A High-Effect Electromagnetic Drive System for the Transport .............................................................................................................................. 1364
Zhongmin Yan, Yu Wang, Xiaofang Xie
Development of Cargo Oil Heating System on Oil Tanker .............................................................................................................................. 1371
Daming Yue, Hui Xing, Zhanhua Wu, Yanwu Xu
Inverse Design Study of Double-Link Luffing Mechanism of Portal Slewing Crane .............................................................................................................................. 1378
Keqin Li, Haiqian Jiang
Coordinated Optimal of Transportation-Inventory with Considering the Capacity of a Single Vehicle .............................................................................................................................. 1384
Yuhui Wang, Jin Xu, Qiyuan Peng
Physical Simulation and Analysis on the Deformation and Failure Mechanism of the Highway Tunnel on Horizontal Rock Stratum

PFEP-Oriented In-Plant Logistics Planning Method for Assembly Plants

City Distribution Center: Truck Load Matching Based on Branch and Bound Method

Architecture of Urban Traffic Control at Intersection in Vehicle Infrastructure Integration Environment

Experimental Investigation on Size Effect Formulae Suitable for Common Concrete Nominal Fracture Toughness

Study on Galloping Critical Wind Velocity of High-Rise Structure

Equivalent Strength Model for Bilateral Interval Crack Director Based on Size Effect Rule and Crack Propagation

Simulation of Urban Regional Traffic Organization Based on GIS

Research on Off-Line Range of High Speed Train Based on Utility Theory

Research on RFID-Based Intelligent Tracking System of Cold Chain Logistics for Agricultural Products

Intersection Signal Timing Optimization Based on the Experimental Method

Numerical Simulation and Grey Correlation Analysis of Factors Affecting the Diffusion of Automotive Emission Nox

Train Dynamic Model of Delay Propagation in Railway Operation

Research on the Operational Control Policy of Multi-Load AS/RS System

Optimized Research on the Collection and Distribution System of Railway Station

Study on Setting of Highway Speed Limit Signs Based on Driver Behavior

Throughput Analysis of an Automated Warehouse with Pallet Shuttle

Behavior and Performance of Ballastless Track with Damaged Cracks under Train Load

Material-Elements Evaluation Approach of Logistics Green Degree Based on Information Entropy Theory

Stress Comparison Analysis of Asphalt Overlay on Rubblized Cement Concrete Pavement

Fatigue Damage Assessment of the In-Service Bridge Based on the Traffic Investigation

Vehicle Remote Fault Diagnosis and Monitoring System Based on CAN Bus

Application of Improved Fuzzy Comprehensive Evaluation Method to Situate Logistics Center

Analyzing Application Effects of Concrete Synergist for Crack and Corrosion Resistance

Study on Container Terminal and Production Resources Model

Study on the Production Optimization Simulation Platform for the Container Terminal Yard's Operation System

Multi-Class Based Revenue Optimization on Distribution Processing Capacity Allocation for Third Party Warehousing

On the Optimizing Maintenance Intervals of Transport Vehicles

Statistical Regularity of Vehicle Front Wheel Sideslip and Its Modeling

Experimental Research on Noise Source Identification of Ring-Plate Pin-Cycloid Planetary Reducer

Analysis and Design for the Number of Berth at Bus Stop Based on AutoMod

Berth Allocation Based on Improved Memetic Algorithm in Container Terminal

Analysis of Noise Reduction on Urban Road Traffic Sound Barrier
A Vehicle Management System of Community Based on Radio Frequency Identification Technology ................................................................. 1622
Wenjing Wang, Huapu Yang, Honglu Liu, Jie Zhang

Effect of Geo-Cell Reinforced Soil Structure Used in Flexible Airfield Pavement ......................................................................................... 1629
Lei Zhang, Qiangkang Gu, Guoping Cen

Study on Two-Phase Method of Emergency Logistics Distribution ........................................................................................................... 1636
Lingxiao Hou, Yang Yang, Kaanying Li

Study on Multiple-Objective Programming in Location of Chain Supermarket in Magapolis ................................................................. 1644
Xiaqin Long, Hongchi Guan, Guoliang Lv

Study on Mechanism of Consumer Responses to CSR ........................................................................................................................... 1651
Longlong Ma, Li Jiang

Application Research of Compound (Q, R) Model Embedded with RFID Sensitive Data Acquisition in Cigarette Retail Inventory Management ........................................................................................................ 1658
Liang Wu, Peijl Shao, Yao Chen

Based on an Improved Model of P-Median Used in the Emergency Location Problem ................................................................................ 1669
Zongwu Yang, Lei Zhang, Yi Yuan

Study on Location Model of Regional Logistics Center Based on Accessibility ......................................................................................... 1677
Jie Zhang, Huqiu Lu

Research and Design on Pneumatic Conveyer Model GFD ...................................................................................................................... 1684
Jihuan Wang, Qijue Liu

Logistics Fleet Remote Management System ........................................................................................................................................ 1691
Hao Dong, Jian Wang, Jiaxin Liu, Quangyi Wang

Motivations, Issues and Solutions: Analysis on Consumer Logistics in EGS Environment ........................................................................ 1698
Xiaoyang Xia, Yongbin Huang, Hong Zhu

Analysis on Impact Factors of Environment-Friendly Logistics Park Industrial Cluster Construction .......................................................... 1705
Zhongwei Wang, Qingshui Zheng

Exploring Safety Education Effectiveness on Accident Risk Reduction for Freight Drivers Based on Behavioral Self-Evaluation ............................................................................................................. 1711
Xiaofei Shi, Ke Wang, Tian Xiao

Research on Model of Railway Emergency Supplies Reserve Site Selection .......................................................................................... 1718
Kairan Zhang, Jian Qiu

Study on the Cushioning Property of Foam-in-Place Packaging Material in Logistics Transportation ........................................................ 1726
Xiaodong Zhao, Jie Yang

Design Idea for Freight Train Synchronous Braking System ....................................................................................................................... 1733
Liwei Qiao, Ruijing Mou

Research into the Influence of Cable Local Vibration over Wave Response for Cable-Stayed Bridges ............................................................ 1739
Changjian Tan, Bing Zhu, Wenfeng Ji, Fengqiao Bai

Study on the Selecting Method of the Connecting Scheme at Technical Stations ..................................................................................... 1747
Xiaohong Zhang, Zhuangqian Guo

Construction of Agricultural Logistics Operation Mode Based on WBS ..................................................................................................... 1753
Xiaoyun Shi, Juzhu Zheng, Haohuan Wei

Research on Pricing Derivatives on Index of Container Freight .............................................................................................................. 1759
Fang Yuan, Yulin Du

Study on Setting Speed Limits on Freeway and Arterial Highway .............................................................................................................. 1765
Jie Zhang, Xiaohua Sun, Yulong He

Study on the Simulation of Automobile Mixed-Model Assembly Lines Based on Flexsim Platform ............................................................. 1772
Jurun Zhang, Xiaoxia Li

Application of Linear Motor in Container-Type Pipeline Transportation ................................................................................................... 1780
Liwei Qiao

Design of State Monitoring System of Compressor in Low Temperature Logistics Based on CAN Bus .......................................................... 1785
Fang Chen, Kuan Wang, Zhao Wang, Haibin Lou

Reliability of Accurate Calculation for Hazardous Materials Transportation Risk .......................................................................................... 1790
Xiaofei Guo

Design of Material Delivery System Based on Lean Construction .............................................................................................................. 1796
Hongtao Mao, Peijiu Cheng

Production Sequencing of Mixed-Model Assembly Lines Based on Simulated Annealing Algorithm ............................................................ 1803
Zhaohui Liu, Chao Wang, Tianjiao Sun

Seismic Response of the Container Crane and Damping .............................................................................................................................. 1809
Zhangyan Zhao, Jianwen Wu

A New Rescue Train for Stones Self-Discharging ................................................................................................................................. 1816
Xichen Dong, Ruiping Lan, Zhangyan Zhao

Improved Air Traffic Flow Management Holding Model in Uncertainties .................................................................................................. 1822
Xiangning Dong, Minghua Hu

Analysis of Accident Characteristics and Causes for Bridge-Tunnel Group Section of Mountainous Expressway ...................................................... 1829
Haipeng Shao

Analysis of Speed Limit Effect of Automatic Enforcement ................................................................................................................ 1836
Si Li, Xiaoduan Sun, Yulong He

Corporate Social Responsibility Equilibrium Model of Suppliers and Manufacturers ........................................................................................ 1844
Ying Peng, Zhouqian Zou
Comparison of the Mechanical Characteristics of Double-Row Piles and Door-Type Piles with Medium and Small Row Spacing in a Large-Scale Landslide ................................................................. 1855
Shiguang Xiao
Research on Modified Binder Recycling Based on Composite Theory of Material ................................................................. 1862
Tao Ma, Chunlei Li, Qinran Liu
Seismic Stability of Highway Embankment Slope ...................................................................................... 1869
Wei Zhong, Tao Yang, Jiming Kong
Research on Establishment of “Hub-and-Spoke” Logistics Network in Wuhan City Cluster .................................................. 1876
Juan Hu, Feng Hai
Simulation Research on Road Transport in Container Port Based on Arena ................................................................. 1883
Li Li, Meng Qiu, Bei Wu, Xiaodong Wang
Research on the Adaptability of Caofeidian Road for Harbor Development ................................................................. 1892
Li Li, Jing Su, Guoquan Yao
Sweeping Algorithm of Transportation Network Operations ...................................................................................... 1898
Chen Xu, Wenpeng Wang, Xinjing Yu

Volume 3

Impact of Traffic Construction on Modernization Development of Peasant and Herder Area ................................................................. 1905
Yao Yang, Bin Shuai
Research on Remote Stress Monitoring System of Metal Structure Based on CDMA and WSN ................................................................. 1911
Zhijing Liu, Yaling Tang, Dang Wan, Yongbo Dong
Evaluation of Beijing’s Public Transportation Network ...................................................................................... 1919
Weibin Li, Yanyan Chen
Impact of Communication on Supplier Integration and Organizational Performance .................................................. 1926
Yu Tian, Yong Peng
A Comparative Analysis of Characteristics of Traffic Accidents of First Class Road ...................................................................................... 1933
Xingjian Bao, Xiaoduan Sun, Yulong He
Dangerous Condition Monitoring Technology of Heavy-Haul Train ...................................................................................... 1939
Jianxin Liu, Kaiyun Wang, Bin Zhang, Hanbiao Nong, Jun Wang
Service Performance and Tracking Test for High-Speed Train ...................................................................................... 1945
Lu Liu, Jinhui Lin
Inland Water Container Transportation Organization Mode of Middle-Grade Waterway Based on River-Sea Multimodal Transportation ...................................................................................... 1950
Study on the Inventory Management in the Virtual Environment ...................................................................................... 1958
Xiaoyu Li, Hongying Tian, Yuexin Huang, Ding Li
Evaluation of Resource-Saving and Environment-Friendly Agriculture Development Status Based on Hybrid Clustering ...................................................................................... 1965
Zhengchu He, Rui Zhang, Dongfeng Wu
Computing Methods for Spatial Distribution of Road Freight Turnover ...................................................................................... 1975
Ming Yang, Huaraong Qiu, Jinhua Wang
Comparison Analysis on Chinese Expressway and Railway Freight Transportation ...................................................................................... 1982
Huaorong Qiu, Ming Yang, Yinsan Chen
Research on Coordination between Operating Speed and Posted Speed Limit on Classified Highway ...................................................................................... 1990
Shashu Wu, Xiaoduan Sun, Yulong He, Ting Xu
China Railway Luggage and Parcel Express Special Train Service Planning ...................................................................................... 1996
Yuanyuan Wang, Minsmiao Lv, Zhaqiang Tian
Research on Inventory Control for Joint Distribution ...................................................................................... 2002
Huaixiong Yang, Mingke He, Bin Hu
Control Strategy of Co-Phase Traction Power Supply Device ...................................................................................... 2009
Yanying Zhao, Quanzhan Li
A Multi-Commodity Model and an Algorithm for the Railway Empty Container Allocation ...................................................................................... 2018
Zhizhong Chen, Yinchen Li
Environmental Risk Assessment Model on Dangerous Goods in Logistics ...................................................................................... 2026
Bingfang Hao
Research on the Optimization for a Random Inventory Strategy Based on Markov Chain ...................................................................................... 2033
Yansen Ye
Crew Seaworthiness Analysis Based on Circuit Theory ...................................................................................... 2040
Jinlu Sheng
Study of Rental Quantitative Model of Power Grid Engineering Project Financing Lease Based on Reimbursement Mode Selection ...................................................................................... 2046
Xiaohua Song, Baizheng Chen, Yiwie Guo, Yanmei Han
An Empirical Analysis on the Relationship between Logistics Development and Economic Growth in Henan Province ...................................................................................... 2052
Zhenggang He, Xiong Zhang, Wei Liao, Xiaojian Yue
Study on the Railway Strategic Loading Station Location Model ...................................................................................... 2059
Zhenggang He, Xiong Zhang, Wei Liao, Xiaojian Yue
Numerical Calculation Method for Beam-Shear Key Pounding Based on Wilson-θ Method .......................................................... 2066
Wen He

III - LOGISTICS AND TRANSPORT INFORMATION AND TECHNOLOGY

Research on Applied of RF Network in the Logistics Warehouse ................................................................. 2072
Jianqing Cai

Empirical Study on Intercity Logistics Distribution Demand Forecast Based on Grey-Markov Model ................................................... 2077
Gang Zhao, Qiyuan Peng

Application and Research of Information Delivering in Logistics Information Portal Based on User Interests .................................................. 2084
Min Li, Qiang Huang, Shaoquan Ni

Price Policy of Supply Chain Based on Power Structure Analysis in Competitive Environment .............................................................. 2093
Dong Xiao, Xing Ruo

Application and Research of Internet of Thing Based on RFID Technology in Beverage Industry of China .................................................. 2100
Yan Wan, Ting Yan

How to Build the Performance Evaluation Indicators of the Disaster Rescue Logistics System .............................................................. 2105
Jun Zhang, Hui Huang

Container Vehicle Dispatching Method and Its Application Based on Fuzzy Control Theory .............................................................. 2112
Sanyan Ji, Simin Zhao

Loan-to-Value Ratio Setting of Inventory Impawn Financing Based on VaR Method ................................................................. 2121
Sui Hu, Qifan Hu

Research for Building the Logistics Information Platform Based on “Logistics Element and Molecular Formula” ............................................. 2127
Zhili Wang, Xiangwen Li, Mingguang Sang

Study of Price Risk Value of Inventory Financing ........................................................................................................ 2135
Qifan Hu, Min Hu, Yuhao Liu

The Homeomorphism between the Logistics Space and the Information Space: The Criterion for Maximizing the Value of the Social Logistics System .................................................................................. 2144
Huayang Yao, Yuanfeng Tang, Qiyuan Peng

Empirical Study of Influence of Information Industry on Logistics Development in Convergence Perspective .................................................. 2151
Diping Zhang

Logistics Information Sharing Platform of Comprehensive Transportation ..................................................................................... 2158
Yu Zhang

Operation Model and Information System of China Pallet Pool System .............................................................................................. 2165
Xueyan Zhang, Juanwei Ren, Yuanbai Sai

Forest of Logistics Handling Capacity of Shenzhen Baohan Airport Based on Gray-Model ................................................................. 2172
Jun Wen, Bing Dong

Framework of Intelligent Search Technology for Internet of Things ................................................................................................. 2179
Xiaoping Qiu, Yuanxin Huang, Yuheng Zeng

Research on the Application of Component Technology in Logistics Management Information System ...................................................... 2189
Junzhong Xia, Yuanhong Liu, Shumin Li, Xiangbi An

Research on Flow Distribution Optimization of Capacitated Logistics Network Based on Concave Cost ...................................................... 2195
Zhonghai Wei, Hongbing Chen, Fei Zhang

Value Loss Evaluation Model of High-Value and Time-Varying Product Based on Life Cycle Theory ...................................................... 2202
Sijie Liu, Jin Zhang, Guoqi Li

United Transportation of Railways and Highways Omniscience Tracking System Model under the Internet of Things ........................................ 2210
Zuejiang Liu, Xueyuan Zhang, Fei Xue, Wentao Liao

Dynamic Multidimensional Game Analysis with Incomplete Information of Recycling Logistics Implemented by Household Appliances Manufacturers ........................................................................ 2217
Wencheng He, Xianjun Guo, Rui Wang

Study of Information Feasibility and Dairy Farm Information Management System ................................................................................... 2224
Dejun Liu, Guangsheng Zhang

Preliminary Study on Environmental Risk Information Management System for Hazardous Materials Rail Transportation in China ........................................................................................................ 2231
Rui Zhao, Dan Liu, Qifan Li

Research on Information Feedback Mechanism of Emergency Supplies Based on System Dynamics .......................................................... 2238
Suo Zhao

Optimization of Food Emergency Logistics Dynamic Distribution System Based on Internet of Things ...................................................... 2244
Huaying Wen, Jinfeng Zhao

A Study of Logistics Distribution System Based on Information Fusion ............................................................................................... 2252
Gongliang Jiang, Zhihong Wang

Integrated Location-Inventory Model and Algorithm for Emergency Biopreparate Supplies Reserve Network under Stochastic Demand .................................................................................. 2259
Feng Gao, Qingsong Li, Chao Meng, Wei Yang

Collaborative New Product Development in Supply Chain with Information Sharing .................................................................................. 2266
Jiajia Nie

Modularization of Tobacco Distribution Center Simulation ............................................................................................................. 2271
Ning Zhao, Shaohua Dong, Wenyong Ding, Lin Chen
Study on Supply Chain Relationship Coordination Based on Minimal-Information Sharing .......................................................... 2278
Knowledge Discovery Model of Logistics Based on Data Mining Technology of ANN ................................................................. 2284
Research on the Application of Data Mining in Logistics Enterprise .......................................................................................... 2291
Research on the Reference Model of Railway Logistics Industry Information Platform ................................................................. 2299
Design and Its Structure of Public Service Platform for Automotive Industry Based on Radio Frequency Identification .......................................................................................... 2308
Water Transportation Management System of Dangerous Goods Based on RFID/GPS/GIS ............................................................ 2315
Research on the System Structure of Internet of Things and Its Industrial in Hubei Province .......................................................... 2321
A GA-Based Heuristic Algorithm for Two-Machine Robotic Flow-Shop Scheduling Problem with Make Span .................................. 2328
Frameworks of AMHS Simulation Driven by RFID Data Streams ................................................................................................. 2336
Application of Data Fusion Technology in Freeway Infrastructure Safety Assessment .............................................................. 2343
Logistics Route Planning with Geographic Data Considering Multiple Factors ........................................................................ 2349
Improved Modern Logistics System Based on the Integration of GPS, GIS, and RFID Technology .................................................. 2356
Simulation of Drug Information Tracking System with Anylogic ............................................................................................... 2363
IPM as a Solution to the Security Problems of RFID-Based Logistics Information System ...................................................... 2370
Progress on RFID Technology Application in Logistics Industry ........................................................................................... 2375
Analysis on Building Reverse Logistics Information System of Household Electrical Appliances Based on Environmental Symbiosis Synergy ............................................................ 2382
Based on Green Logistics Enterprise Information Construction ............................................................................................... 2391
Design of Flexible Inventory Verification Information System Based on Workflow Engine Management ......................................... 2398
A Study of Public Logistics Information Delivery Using TPEG over China Multimedia Mobile Broadcasting ............................ 2406
Research on Logistics Information Service Based on SOA ........................................................................................................... 2413
FUZZY Expert System for Flexible Pavements Crack Performance Prediction ........................................................................ 2418
Application of Self-Propelled Transporter in Steel Plant’s Logistics .......................................................................................... 2425
Simulation Optimization of Goods Loading Model in Distribution Center ................................................................................ 2432
Logistics Information System Based on Supply Chain for Machine Tool ................................................................................ 2440
Research on Visual Information Management System on the Whole Process of Container Multi-Modal Transport Logistics ........................................................................................................ 2446
Flexism Simulation Research on Application of Internet of Things Technology in Retail Business Logistics Distribution .................. 2452
Analysis and Optimization of Coal Enterprise Supply Logistics System Based on ERP .......................................................... 2460
Research on Integrated Evaluation System of Corporate Business and Staff Performance .......................................................... 2467
Research on Revenue Allocation Mechanism in Port Logistics System Collaborative Competition .............................................. 2475
Using Wavelet Technology for Pavement Crack Detection ..................................................................................................... 2482
Effects of Slip Surface Inclination on Slope Pressure Exerted on Anti-Slide Piles .......................................................... 2488
Design and Implementation of Network Marketing Platform for Sports Products Based on Web Service ....................................... 2495
Design and Implementation of Logistics Warehouse Management System Based on RFID and WSN ......................................... 2503
IV - SYSTEM OPTIMIZATION AND SIMULATION MODELS

Selection of Logistics Nodes in North-East China Based on Set Pair Analysis ................................. 2576
Ying Sun, Meizi Cui, Weida He

Clustering Methods Evaluation As Well As Its Application to Waste Products Clustering Research .......................... 2582
Gang Wu, Shixiong Liu, Yan Zhang, Qiwei Yan

Layout Model of Logistics Corridor for Disaster Emergency Based on Reliability Analysis .......... 2588
Yamin Hao, Jian Chen, Xiaohua Li

Research on the Optimum Burden Mathematical Model and Computer Application for Regenerated Hollow Polyester Staple Fiber ................................................................. 2596
Guohua Zhang, Jieyu Chen

Research on Distribution Center Location Model of Maximum Coverage Based on Collaborative Inventory of Supply Chain ...................................................................................... 2603
Ya Bi, Wenfeng Li

Maximal Benefits Location Model Based on the Fuzzy Function and Analytic Network Process .......... 2609
Bi Ya, Li Wen Feng

Model Construction and Application of National Logistics Competitive Strength Based on Neural Network ........................ 2615
Yong Geng, Liguang Zhou, Yongling Gao, Nina Yan

Application of Grey Correlation Analysis Based on Entropy Weight for Supplier Selection ............ 2622
Jingrong Liu, Xiyang Huang

Study on Emergency Distribution Strategy Based on Ant Colony Algorithm with RBF Neural Network Model ................................. 2628
Jinku Li, Jianliang Zhao

Application of AHP/DEA on the Comprehensive Evaluation of the Third Party Logistics Enterprise’s Performance .............................................................. 2636
Hua Li

Multi-Trip Vehicle Routing Problem Based on Fuel Consumption Reduction ................................. 2643
Yong Feng, Jing Feng, Hongbo Li

Resource Allocation Model with Transportation Capacity Constrain in Emergency Logistics .......... 2650
Daqiang Chen

Research on the Competition between Two Completely Separated SCs and Coordination within One SC with Price Dependent Stochastic Demand ................................................................. 2657
Bing Xu, Junmei Yang

Modeling of Cooperation between Airlines and Fuel Suppliers ........................................................... 2664
Bo Wang, Huchun Lv

Ranking Logistics Performance in Manufacturing Enterprises Based on the Cross-Efficiency in Data Evelopment Analysis .............................................................. 2669
Yongling Gao, Liguang Zhou

Optimal Network Design for Remanufacturing Logistics under Uncertainty ................................. 2676
Zhongping Zhao

Study on Logistics and Transport Organization Optimization Based on Ecological Footprint Analysis .............................................................. 2684
Lin Li, Jin Zhang, Yangui Yang, Zhi Li

Study on Workshop Delivery Route Optimization Based on Ant Colony Algorithm ......................... 2691
Jiuxu Li, Jianliang Zhao

Optimization Model for Intermodal Transportation Networks Based on Supply Chain ................. 2698
Qingchuan Fang

Research on Optimization Model of Multi-Stage Dynamic Supply Chain Network ......................... 2704
Qingchuan Fang
Study of Gray-Markov Chain Method on Guangxi Logistics Demand Forecast.......................................................... 2709
Jiaqi Yang, Changying Chen
Simulating Collaborative Distribution of 3PL Enterprise-Led.................................................................................. 2717
Ding Li, Yuanxin Huang, Xiaoya Li, Hongying Tian
Evolution Process Analysis of Synergetic Development of Regional Logistics Supply and Demand Coupling System .......................................................................................................................... 2727
Xiaodi Cui
Designing the Quality Assurance System of Fruits and Vegetables Cold Chain......................................................... 2733
Haiyan Yi, Yangchen Li
Constructing the Evaluation System of the Quality Risks of Fruits and Vegetables Cold Chain............................... 2740
Haiyan Yi, Jingli Cui
Study on Application of RFID in Coal Collection and Distribution System.......................................................... 2746
Wenyuan Liu, Fei Su, Xueling Zhang
Research on Optimal Remanufacturing Strategies of Reverse Logistics Based on Advanced Recovery Mechanism .......................................................................................................................... 2751
Nina Yan, Liqiao Zhou
Research on Hubs Optimization for Non-Strict Hub-and-Spoke Logistics Network with Nodes Cost......................... 2758
Guanghua Yang, Min Zou
Multi-Product Optimal Ordering Strategies under Budget Constraint....................................................................... 2765
Qiu Yan, Yanfeng Cai, Qian Yang
Application and Result Analysis Comparison of Based on MLP Neural Network and Econometric Models in Logistics Demand Forecasting .......................................................................................... 2771
Yibao Du, Jin Zhang, Zheng Tang, Yiming Qi
Application of Improved Genetic Algorithm in Path Optimization of Emergency Logistics ....................................... 2778
Livi Zhang, Qingyun Guo, Yuanhe Sun, Jin Zhang
Model and Algorithm for the Network System of Distributing Traffic in Port .......................................................... 2785
Ying Yu, Yuguanyuan Liu
Airline Network Revenue Management Based on Simulated Annealing Genetic Algorithm....................................... 2793
Bing Dong, Wen Du, Lianming Zhao
Optimal Design of Integral Steering Linkage............................................................................................................. 2800
Wen Chen
An Optimization Model for Logistics Information Delivery Based on Minimal Redundancy Cache-Control ................. 2807
Qiang Huang, Min Li, Shaoquan Qi, Yangping Gong
A Method of Emergency Logistics Route Choice Based on Fuzzy Theory.............................................................. 2815
Xiaolong Sun, Jun Lu
Application of Structural Equation Model in Reverse Logistics Outsource .............................................................. 2823
Haiyan Wang, Min Tu
An Optimization Model and Heuristic Algorithm for the Ro-Ro Ship Loading .......................................................... 2830
Bo Qiu, Yanyuan Jiao, Liang Xu, Zhicheng Lin
Integration Optimization Model and Algorithm for Passenger Station Location-Task Allocation Problem in Railway Terminal .......................................................................................................................... 2839
Yu Li, Jun Zhao, Jie Cheng
Model and Algorithm for Hazardous Waste Location-Routing Problem................................................................. 2846
Jiahong Zhao, Jun Zhao
Optimal Logistics Hubs Locations on the Multimodal Transportation Network.......................................................... 2853
Qingliang Zhao, Ying Yan, Hongping Song
A Fitness Landscape Approach to the Evolution of Outsourcing Networks and Suppliers ............................................. 2859
Zhiyang Liu, Zulin Shi

Volume 4

Research on Dynamic Order Problem Based on the Shortest Path Model................................................................. 2866
Xiao Wu, Wei Luo, La Liu, Yuyuanyuan Huang
Vehicle Routing Optimization Considering Dynamic Reliability during Lasting Period of Traffic Incidents.................. 2874
Xi Zhang, Yun Hu, Haixu Liu, Da Yang
Optimization of Distribution of Shopping Center to Manage Shopping Trips in a Chinese City..................................... 2881
Hengquan Zhang, Jiayao Xu
Research on Emergency Material Demand Forecasting Model in Disaster Based on MLR-CBR ................................. 2888
Jing Zhang, Lixiu Ye
The Internet of Things and Personal Privacy Protection ............................................................................................. 2895
Jing Zhang, Lixiu Ye
Study on Vital Node of Distribution Networks .......................................................................................................... 2902
Jiaxiang Chen, Yousong Tan, Zaiyuan Ye
Model of Vehicle Dispatching for Logistics Distribution .......................................................................................... 2908
Yunmei Qin, Tongfeng Wu, Dejian Zhou
Simulation on Operation Influence by External Factors for Railway Container Logistics Center ................................. 2915
Peng Guo, Wenming Cheng, Min Zhang
Working-Area Layout Method Study of Railway Logistics Park Based on Genetic Algorithm .................................... 2923
Xiaoyan Zhong, Xiaojun Guo, Hui Yue
<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Identifying Critical Locations of Post-Earthquake Transportation Networks Based on Vulnerability Analysis</td>
<td>2931</td>
</tr>
<tr>
<td>Haopeng Li, Sanyou Ji, Zifan Fang</td>
<td></td>
</tr>
<tr>
<td>Study on Resources Optimization Method of Multi-Project in Manufacturing Enterprise Based on Enhanced Particle Swarm Optimization</td>
<td>2938</td>
</tr>
<tr>
<td>Jun Zhu, Qin Zhang</td>
<td></td>
</tr>
<tr>
<td>A Model of Disaster Emergency Logistics Based on Third-Party Logistics Participation</td>
<td>2945</td>
</tr>
<tr>
<td>Jun Zhu</td>
<td></td>
</tr>
<tr>
<td>Analysis of Routing Optimization for Reverse Logistics</td>
<td>2952</td>
</tr>
<tr>
<td>Jihong Gao, Can Xu</td>
<td></td>
</tr>
<tr>
<td>Location Model of Processing Factory of Crop Residues Fodder</td>
<td>2961</td>
</tr>
<tr>
<td>Yufeng Sun, Guangzhou Zhang, Guangxin Xu</td>
<td></td>
</tr>
<tr>
<td>Research on Vehicle Routing Problem Based on Quantum Genetic Algorithm</td>
<td>2968</td>
</tr>
<tr>
<td>Ling Zhou, Rongfang Li, Qingsong Li</td>
<td></td>
</tr>
<tr>
<td>Research on Application of Mathematical Methods to Layout and Planning of Distribution Park</td>
<td>2975</td>
</tr>
<tr>
<td>Yuduo Lu</td>
<td></td>
</tr>
<tr>
<td>Research on Logistics Transport System Scheduling Optimization in Container Port</td>
<td>2983</td>
</tr>
<tr>
<td>Transportation Network Designing of Dangerous Goods Based on Bi-Level Programming</td>
<td>2991</td>
</tr>
<tr>
<td>Tie Wang, Gangtie Chen</td>
<td></td>
</tr>
<tr>
<td>Based on P-Median Location Model in Emergency Material Storage Facility Location Problem on Anhui Province</td>
<td>2998</td>
</tr>
<tr>
<td>Xun Weng, Lei Zhang, Yi Yuan, Kun Chen</td>
<td></td>
</tr>
<tr>
<td>Risk-Averse Transit Equilibrium Assignment</td>
<td>3005</td>
</tr>
<tr>
<td>Zhengfeng Huang, Zhixin Zhang, Waguang Hang</td>
<td></td>
</tr>
<tr>
<td>Research on Emergency Material Storage Facility Location Problem of Guangdong Province</td>
<td>3013</td>
</tr>
<tr>
<td>Shan Lu, Zhao Wang, Lei Zhang</td>
<td></td>
</tr>
<tr>
<td>Optimal Model for Distribution of Cargo in Inland Collection and Distribution Network of Port</td>
<td>3020</td>
</tr>
<tr>
<td>Qingbin Wang, Baige Zang, Zhihong Jin</td>
<td></td>
</tr>
<tr>
<td>Study on Optimal Method of Cargo Flows Distribution in Port Logistics Park</td>
<td>3027</td>
</tr>
<tr>
<td>Yunning Zhang, Wei Xue</td>
<td></td>
</tr>
<tr>
<td>Study of Structural Relationship from Sales Logistics Network Evolution to Overall System Performance</td>
<td>3034</td>
</tr>
<tr>
<td>Tie Wang, Fumao Ye, Xiubong Shi</td>
<td></td>
</tr>
<tr>
<td>Optimal Policy of Manufacturer in Warehouse Confirming Contract</td>
<td>3040</td>
</tr>
<tr>
<td>Yigang Zhang, Xiuxiao Tang</td>
<td></td>
</tr>
<tr>
<td>Multi-Objective Optimal Scheduling for Logistics Resources in Port Logistics Alliance</td>
<td>3047</td>
</tr>
<tr>
<td>Yunning Zhang, Tongwei Wang</td>
<td></td>
</tr>
<tr>
<td>Study on Enterprise Logistics System Optimization Path Selection Based on Human Resources Management</td>
<td>3055</td>
</tr>
<tr>
<td>Li Zhao, Jian Jia</td>
<td></td>
</tr>
<tr>
<td>Study on Logistics Distribution Route Problem Based on Road Traffic Volume</td>
<td>3062</td>
</tr>
<tr>
<td>Chuantian Ren, Hui Wang, Changchang Yin, Fucheng Liu</td>
<td></td>
</tr>
<tr>
<td>Distribution Park Vehicle Scheduling Optimization Model</td>
<td>3069</td>
</tr>
<tr>
<td>Hua Li</td>
<td></td>
</tr>
<tr>
<td>Multi-Objective Stochastic Programming Method for CDL under Random Demand</td>
<td>3075</td>
</tr>
<tr>
<td>Lu Hu, Yijun Zhao, Bo Peng</td>
<td></td>
</tr>
<tr>
<td>Research on Green Path Planning Model for Road Logistics Vehicle</td>
<td>3085</td>
</tr>
<tr>
<td>Haohai Tang, Rong Yuan, Tao Wang</td>
<td></td>
</tr>
<tr>
<td>Research on 3S Integrated Technology in Emergency Logistics Distribution under Public Emergency</td>
<td>3092</td>
</tr>
<tr>
<td>Haolong Sun, Yongzheng Kang, Haoli Zhang, Liyan Yue</td>
<td></td>
</tr>
<tr>
<td>A Probability Distribution Model on Route Optimization for Hazmat Transportation</td>
<td>3098</td>
</tr>
<tr>
<td>Xiaoyan Deng, Yinchun Li, Weimin Ma</td>
<td></td>
</tr>
<tr>
<td>Multi-Objective Optimization Problem in Multimodal Transshipment Scheduling of Interregional Relief Materials</td>
<td>3107</td>
</tr>
<tr>
<td>Zhouqing Li, Zijun Mo, Lei Kang</td>
<td></td>
</tr>
<tr>
<td>Supply Chain Enterprise Alliance Multi-Time Interval Storage and Transport Optimization Research Based on Slope</td>
<td>3114</td>
</tr>
<tr>
<td>Nengye Mu, Jin Zhang, Xianwen Xiang, Haijing Xu</td>
<td></td>
</tr>
<tr>
<td>Optimal Selecting and Sequencing of Cargo Flight Scheme Based on Uncertainty Multi-Attribute Decision-Making</td>
<td>3122</td>
</tr>
<tr>
<td>Ken Chen, Qipeng Yan</td>
<td></td>
</tr>
<tr>
<td>Study on Prediction Model of Port Cargo Throughput Considering the Interaction between Port and City</td>
<td>3130</td>
</tr>
<tr>
<td>Jinsong Gai, Haokun Yan, Yajing Dan, Nao Wang, Shengde Li</td>
<td></td>
</tr>
<tr>
<td>Multi-Objective Vehicle Routing Problem in Hazardous Material Transportation</td>
<td>3139</td>
</tr>
<tr>
<td>Bin Zheng</td>
<td></td>
</tr>
<tr>
<td>Haiyan Pang, Nan Liu, Kang Tang</td>
<td></td>
</tr>
<tr>
<td>Modeling and Dynamic Behavior Analysis of a Hydraulic Servo System with Consideration of Pipeline Effect</td>
<td>3153</td>
</tr>
<tr>
<td>Chunfeng Dong, Yujie Zhou, Juan Lu</td>
<td></td>
</tr>
<tr>
<td>Analysis of Intercity Passenger Mode Choice Behavior Based on Probability Choice Modal</td>
<td>3161</td>
</tr>
<tr>
<td>Guowei Zhou</td>
<td></td>
</tr>
<tr>
<td>A Situation Assessment Method of Traffic Incident Based on Bayesian Networks</td>
<td>3168</td>
</tr>
<tr>
<td>Dawei Li, Lin Cheng</td>
<td></td>
</tr>
</tbody>
</table>
Application of Improved Genetic Algorithm in Optimization of Logistics Distribution Routing .......................................................... 3176
Zhiwei Ni, Yachun Guo, Ye Liu

Forecasting of Logistics Park Scale Based on System Dynamics Theory ...................................................................................................................... 3183
Da Yang, Yun Pu, Liling Zhu, Xi Zhang

Key Problems in Train Working Diagram of Passenger Special Line ......................................................................................................................... 3191
Miaomiao Lv, Yuanxing Wang, Dinghuan Chen

Dynamic Power Equation for Variable Frequency Crane in the Operation Process ........................................................................................................... 3198
Weigang Fu, Wenming Cheng, Yan Zheng, Dezhang Pu

Fuzzy Comprehensive Assessment Model of Moderate Development of Port Throughput .......................................................................................... 3205
Jinxing Gai, Junxing Yu, Rongping Meng, Nian Wang, Shengde Li

Rational Planning on System Layout of Manufacturing Enterprise Logistics Center .................................................................................................... 3212
Zhuping Liu, Yaling Tang, Tengfei Jia, Yonguo Dong

A Freight Time-Value-Dependent Logistics Intermodal Minimum Cost Path Model and Algorithm ................................................................. 3221
Qing Sun, Weniang Chen

Slotting Optimization for Railway Freight Yard Based on Genetic Algorithm ........................................................................................................... 3228
Bowen Tian, Hongxia Lv

Analysis on Optimized Scheduling of 4S Auto Dealership ...................................................................................................................... 3236
Xi Zhao, Bo Yu, Yiting Liu

Real-Time Scheduling of Bottleneck Procedure in Auto Maintenance Workshop .............................................................................................................. 3244
Qin Yang, Xi Zhao, Yanru Li

Reusable Logistics Resources Dispatching Optimization .......................................................................................................................... 3251
Jin Zhang, Jianwei Ren, Xueyuan Zhang

Study on Location of Nanjing Logistics Distribution Center ................................................................................................................................. 3258
Liang Xue

Research on Comprehensive Evaluation Model of Logistics Enterprise Based on Special-Line Transportation ........................................................................... 3265
Xiantian Liu, Juhe Wang, Haiying Zhang

Inventory Control Model in Three-Echelon Logistics Network with Stochastic Demand ......................................................................................... 3272
Heng Liu, Kun Wang, Song Xu

Predict Research on Logistics Requirement Based on Least Squares of Vector Model Optimized by GA ................................................................. 3280
Yu Fan, Xiaomei Zhu, Qi Peng Yao

Study on Marine Shipping Capacity Option Contract Optimization Problem under Empty Container Reposition .......................................................... 3286
Xiangzi Bu, Meng Yan, Longwei Tian

Choosing Logistics Distribution Routing Based on Disturbance Degree to City ........................................................................................................ 3294
Nan Zhang

Layout of Logistics Facilities Based on Binary Tree Representation ................................................................................................................ 3300
Yingying Tang, Qiyang Yao, Si Chen

Study on Interests Coordination Mechanism of Third-Party Logistics Service Innovation .......................................................................................... 3307
Jin Li, Zhunchun Ye

Design of Bank’s Optimal Incentive Contract toward TPL Based on FTW Mode ........................................................................................................ 3314
Wei Yan, Yuanxun Zhao

Application of Dijkstra-Based N-Shortest-Paths Algorithm to Catering Logistics Transportation ................................................................. 3320
Hengguan Zhang, Wenjing Sheng

A New Hybrid Algorithm for Solving TSP .................................................................................................................................................. 3327
Weizhen Yao, Chao Jin

Goods Retail Auto-Management Platform Based on WSN and RFID ......................................................................................................................... 3335
Zhengxing Wang, Laiqingsheng Xiao

Improved Ant Colony Algorithm for Vehicle Routing Problem ......................................................................................................................... 3342
Hongwei Du

Model for Forecasting the Share of Different Modes in Urban Passenger Transport Based on Sustainable Development ............................................................................ 3348
Listian Lin, Yaru Li, Liang Ge

Application Study of a Multi-Objective Evolutionary Algorithm on the Optimization of Physical Distribution Routing Problem ................................................... 3355
Liangyong Cao

Probability Model and Solution of Railway Empty Car Distribution ..................................................................................................................... 3363
Xueping Cheng, Ruiyue Tang, Zhuhui Tang

Modeling and Simulation Analyzing of Passenger Car Assembly Line Based on Time Colored Petri Net .............................................................................. 3369
Yudai Huang, Ronghua Ren, Amin Wu, Jun Zhang

Traffic-Mode Choice Predict Model of the Comprehensive Transportation Hub Based on Nest Logit Model .............................................................................. 3377
Xiaowei Zhou, Xiaofei Yu, Xiaoguang Yang, Baiyong Shi

Drop Simulation Analysis of Sanitary Ware Packages in Logistics Transportation .................................................................................................. 3385
Jie Yang, Zhong Ji

Simulation and Optimization of Garment Distribution System Based on Flexsim .......................................................................................................... 3393
Yaping Chen, Tianyuan Song, Qin Jiang

Research on Harbor Connection Corridors Planning and Freight Traffic Volume Prediction .................................................................................................. 3400
Yang Li, Zhihua Zhao

Study on Algorithm and Mathematical Models for Cargo Loading Problems Based on Priority Scale ......................................................................................... 3407
Hongwei Ma, Xianping Qiu, Ye Shi

Modeling of Cross Dock Location and Its Application to CD between Parts Suppliers and Vehicle Manufacturers .............................................................................. 3414
Xiaohui Liu, Youwang Sun
<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>State-Action Pairs Reduction for Weak Planning via State Reachability</td>
<td>3420</td>
</tr>
<tr>
<td>Simulation and Analysis of Bus Terminal Ticketing System Based on AutoMod</td>
<td>3427</td>
</tr>
<tr>
<td>Dynamic Optimization of Path of Transportation Dangerous Goods under Government Restrictions and Risk</td>
<td>3434</td>
</tr>
<tr>
<td>Optimization Research about the Time Window Based Transportation Routing Problem of Emergency Transportation</td>
<td>3441</td>
</tr>
<tr>
<td>Empirical Studies on the Fuzzy Comprehensive Evaluation to the Performance of Reverse Logistics System Based on the Fuzzy AHP Model</td>
<td>3447</td>
</tr>
<tr>
<td>Selection of the Optimum Path in Urban Rail Transit Network Based on Multi-Optimum Choice</td>
<td>3454</td>
</tr>
<tr>
<td>A Multi-Period Model for Relief Resource Allocation Based on Dynamic Vulnerability of Affected Areas</td>
<td>3460</td>
</tr>
<tr>
<td>Route Construction Algorithms for Time Dependent Vehicle Routing Problem</td>
<td>3467</td>
</tr>
<tr>
<td>Dynamic Berth Scheduling Optimization Based on Rolling Window in Container Terminal</td>
<td>3475</td>
</tr>
<tr>
<td>Two Operation Modes in Coal Chemical Logistics: Comparison of Decentralized and Centralized Modes</td>
<td>3482</td>
</tr>
<tr>
<td>Decision Support System of Project Logistics Based on Gray Theory</td>
<td>3489</td>
</tr>
<tr>
<td>Optimization and Control of the Coordinated Development of Logistics Basis and Economic Foundation</td>
<td>3495</td>
</tr>
<tr>
<td>Safety Analysis of Logistics System Based on Modern Causal Chain Theory</td>
<td>3503</td>
</tr>
<tr>
<td>System Optimal Design on Distribution Center of Agricultural Products Logistics Based on Flexsim</td>
<td>3510</td>
</tr>
<tr>
<td>Study on Multimodal Transport Network Model Base on Genetic Algorithm Method</td>
<td>3517</td>
</tr>
<tr>
<td>Research on Logistics Distribution Enterprise Vehicle Routing Problem Based on the Simulated Annealing</td>
<td>3524</td>
</tr>
<tr>
<td>Traffic Flow Prediction Based on Wavelet Analysis and Artificial Neural Network</td>
<td>3531</td>
</tr>
<tr>
<td>Research on Model of Optimal Quality Investment for Agricultural Products Based on Dependence</td>
<td>3538</td>
</tr>
<tr>
<td>Design for Logistics Center Locating System Based on RFID</td>
<td>3544</td>
</tr>
<tr>
<td>Cargo Transportation Path Optimization Based on Intelligent Algorithm</td>
<td>3555</td>
</tr>
<tr>
<td>Comparisons for Ideal and Instantaneous Dynamic User-Optimal Assignment Models</td>
<td>3563</td>
</tr>
<tr>
<td>Modeling the Relationship between Speed Limits and Operation Efficiency</td>
<td>3571</td>
</tr>
<tr>
<td>Forecast of Seaport Cargo Volume Based on Artificial Neural Network Model</td>
<td>3580</td>
</tr>
<tr>
<td>A Robust Optimization Model for Dynamic Pricing over Finite Horizons</td>
<td>3587</td>
</tr>
<tr>
<td>Traffic Safety Evaluation by Using a Comprehensive Method that Based on Delphi-AHP-Fuzzy</td>
<td>3597</td>
</tr>
<tr>
<td>Logistics Demand Prediction Based on ARMA Model Improved by Blind Number Approach</td>
<td>3604</td>
</tr>
<tr>
<td>Research on Road Alignment Based on Cloud Model</td>
<td>3612</td>
</tr>
<tr>
<td>Simulation of Freight Consolidation Strategy Based on System Dynamics</td>
<td>3619</td>
</tr>
<tr>
<td>Comprehensive Evaluation of Enterprise Emergency Management Capacity Based on Variable Weight Gray Cluster</td>
<td>3626</td>
</tr>
<tr>
<td>Study on Production Efficiency of “Two-Oriented Agriculture” Based on Three-Stage DEA Model</td>
<td>3633</td>
</tr>
<tr>
<td>Logistics Models for Forecasting the Growth of Shanghai Port's Throughput</td>
<td>3643</td>
</tr>
<tr>
<td>Inventory Model Study in Manufacturing/Remanufacturing Hybrid System Based on Lean Production</td>
<td>3651</td>
</tr>
<tr>
<td>Research and Application of Multi-Logistics Centers’ Location Based on System Clustering Method and Modified Centroid Method</td>
<td>3658</td>
</tr>
</tbody>
</table>
A Generic Model of Reverse Logistics Network Design
Yongcheng Zhou, Ye Yang, Jingsong Zhang, Mingke He, Biao Dong

3667

Path Selection Algorithms for Emergency Logistics Based on Time Expectation
Lixie Chen, Quanhua Tang

3674

Research on the Evaluation Methods of Modern Logistics Industrial Security
Jianmei Zhu, Guofang Li

3682

Research on Dynamic Stochastic Shortest Path Problem
Fanhu Pan, Yang Zhang

3689

Study on Optimal Configuration for Operating Parameters of Railroad Line
Tao Yang, Zhigang Chen, Bin Wang

3696

Design Strategy and Software Implementation of Material Handling System
Ling Xu, Lei Wang, Xianchao Guan

3702

Research on Model and Algorithm of Fractal Data Mining Based on IOT
Ning Chen, Xueyuan Zhang

3708

Study on Model of Co-Shared Information Resource Allocation Based on Multi-Fractal
Ning Chen, Xueyuan Zhang

3715

V - LOGISTICS FINANCE AND ECONOMY

Analysis of the Relationship between Port Logistics and Regional Economics in Shandong Province of China
Jingzi Xie, Dong Yang

3722

Research on the Game Behavior of Logistics Enterprise in Inventory Financing
Hong Li, Liyun Chen

3730

Comprehensive Evaluation on Frontier Port Logistics of Heilongjiang Based on Factor Analysis and Clustering Analysis
Tongyan Dai, Biao Wu, Wen Li

3737

Empirical Analysis on the Relationship between Development of Modern Logistics and Economic Growth in Zhuhai
Xiaohua Chen

3744

Exhibition Logistics Transportation Modes Selection Based on Synthetic Estimation
Liansheng Tang, Xiaojia Liu, Huajie Xu

3749

A Three-Phase Policy for Single-Vendor Single-Buyer Production-Inventory Systems
Xiong Hao

3755

Projection Pursuit Evaluation Based RAGA in the Logistics Project Investment Management
Yinli Wang, Kun Zhao

3763

Comprehensive Evaluation of Credit Risk of Warehousing Logistics Financial Business Supervisor
Juan He, Liwei Kang, Zhonghua Ma, Ming Li

3770

Evaluation of Logistics Enterprises’ Knowledge Management Capability
Lingchi Li, Shun Wu

3778

Discussion about Future Challenge of Projects from Dynamic and Integrated Nature in Logistics Industry
Rongrong Zhang

3785

Research on Farmers Financing Based on Grain Warehouse Receipts Pledging
Jie Luo, Haichong Chen

3791

Estimating VaR Based on Copulas of Price Risk in Inventory Financing
Liwei Kang, Juan He, Jian Wang

3798

Research on Pricing Strategy between Different Collection Sites of WEEE Based on Hotelling Model
Hongyan Shen

3806

Volume 5

Evaluating R&D Efficiency in Logistics Based on DEA Approach: An Illustrative Example from China
Changbing Jiang, Lijun Bai, Yunjuan Zhang

3813

Analysis of Overall Benefit of Integrated Transportation Base on Bi-Level Programming Model
Zhengmin Tan, Si Chen, Cheng Zhang

3820

VaR Models for Impawn Rate of Steel of Inventory Financing: An Empirical Analysis Based on Price of Hot Rolled Plate in Shanghai
Jian Wang, Juan He, Miaomiao Liu

3826

Demand Estimation and Development Strategy of Chengdu Aviation Logistics in the Pattern of Aviation-Railway Combined Transportation
Feiqiao Zhang, Bo Jiang, Mingfang Li

3834

Research and Application on Development Mechanism of Convergence on Logistics and Finance
Wenzhe Xu, Dong Mu

3841

Assessment of Shipping Enterprise’s Operational Risks Based on Principal Component Analysis
Jia Li, Xiangyu Yin, Weixin Luan, Qi Xu

3847

Ship Investment under Uncertainty Based on Real Options and Fuzzy Theory
Jia Li, Qi Xu, Weixin Luan, Xiangyu Yin

3854

A Fuzzy Approach Based on Vague Sets for Evaluating Railway Logistics Center Performance
Bin Lu, Shaoquan Ni

3862
Studies on Supporting System of Rural Human Settlements Evaluation in China .............................................................. 3871
Guoshun Lin, Yan Chen, Gu Feng, Xiangwen Li

Evaluation of Incentive Mechanism of Emergent Materials Agile Security ................................................................. 3878
Jin Zhang, Guoqi Li, Gang Chen

Shipping Companies’ Decision-Making Research Based on Real Options Theory .......................................................... 3887
Yan Wang, Kun Zhang

Risk Investment Decision of Green Logistics Industry Based on Black-Scholes Pricing Model ....................................... 3893
Yong Li, Jun Zhang

Research on Oil Supply Chain Cost Distribution Based on Stackelberg Hame Model ......................................................... 3899
Li Li, Donghai Xue

Construction of Reverse Logistics Mode and Economic Benefits Evaluation Model for Household Appliances .............. 3905
Jingchen Xu, Hong Pu

Forecasting Model of Regional Logistics Volume Based on GSA-SVR .............................................................................. 3910
Zicheng Guo, Hongfei Ding, Yazeng Liu

Infra-Marginal Analysis of Logistics Economy in Urban Agglomeration Economies .......................................................... 3918
Jinlin Ma, Long Chen

Analysis of Existing Situations and Demand Forecasting of Human Resources of Logistics in Sichuan Province ............ 3926
Lixia Huang

Evaluation Index System of the Hub City Logistics System Layout .................................................................................. 3933
Peng Zhang, Feng Xie

Game Balance in the Cut-Throat Competition of Road Logistics—The Insurance Loss Settlement Based on Traffic Security ................................................................. 3939
Chang Li, Xiaofu Shi

Application of DEA/AHP in the Natural Disaster Emergency Logistics System ............................................................... 3946
Qinjie Xiao, Ruifang Mou

Discussion about Material Flow Cost Accounting ........................................................................................................... 3953
Jie Wang, Yanjuan Cai, Jin Zhu, Ling Li

Research on Index System for Evaluating Safety State of Freeway Infrastructure ........................................................... 3959
Haiyang Leng, Qiaojun Xiang, Jing Xing, Linli Yan

Study on Evaluating Ship Investment Decision Based on Ternary Tree Pricing Model of Real Option .............................. 3966
Qing Xiao, Jing Li, Xindao Wang

Study of Coordination Development between Logistics Industry and Regional Economy Based on DEAHP Model ........... 3973
Qiaosheng Tang, Tingting Niu

Application of Time-Series Method on Prediction for Roadbed Deformation of High-Speed Railway ............................. 3979
Zezhong Jiang, Xiaoyun Liu

Thoughts on China’s Logistics Insurance during the Post-Financial Crisis Era ................................................................. 3986
Wenjuan Chen, Haoyu Yuan

The Contribution of Retail for the National Economy ...................................................................................................... 3993
Qing Wang, Juan Yu

Research on Logistics Transfer Hub Based on Generalized Cost Model ......................................................................... 4000
Qian Wang, Weibei Liu, Jieshuang Dong

Combined Prediction of Transport Capacity in Henan Province ....................................................................................... 4007
Chunhua He, Yanhua Li, Binging Li

Research on Logistics Financing Efficiency for Small and Medium Enterprises Based on Fuzzy Comprehensive Evaluation ........................................................................................................ 4014
Hong Li, Fangjun Shi

Effect Analysis of Regional Logistics Industry to Regional Economy Growth ................................................................. 4022
Humin Sun, Yan Yu

Empirical Analysis on the Effect of Logistics Industry Development to China’s Economic Growth ................................. 4030
Xiaofei Xu, Yanjuan Cai, Min Hou

Forecast of Monthly Empty Container Throughput Based on Semi-Parametric Linear Regression ............................... 4037
Jianping Wang, Bui Wang

Research on Trust Relation in Logistics Enterprises Strategic Alliance Based on Evolutionary Game ............................... 4044
Hengguang Zhang, Zhe Kai, Jiayao Xu

Research the Key Logistics Capability on Embedding Regional Trade Service Profit Chain ............................................... 4051
Mingfei Liu, Jingting Zhao

An AHP-FCE-Based Study on Green Logistics Performance Evaluation ........................................................................... 4058
Jinlin Ma, Long Chen

Study on Logistics Model of Complex Network .................................................................................................................. 4065

A Quantitative Analysis Tool of Factors That Affect Customer Loyalty ............................................................................. 4072
Xiaodong Li, Ding Liao, Lechen Wang

Demand Forecast in Food Logistics of Sichuan Province in China ...................................................................................... 4079
Zhenggang He, Yao Fan, Wei Liao

Evaluation of Marshalling Yard Layout with Game Theory ............................................................................................... 4084
Yong Yin, Yan Yang

Game Analysis of Escrow Services Adoption in Online Auction Market ........................................................................... 4089
Shuxian JI, Dongmei Zhao

Prediction Model for Control in Highway Safety Operations ............................................................................................. 4100
Guoxun Lin, Yan Chen, Gu Feng, Xiangwen Li
VI - SUPPLY CHAIN MANAGEMENT

Optimization Model on Close Supply Chain of Green Agricultural Products in China .......................................................... 4155
Duosheng Wang, Yusong Yan

Study on Location Model of Multi-Node Distribution Centers in Closed-Loop Supply Chain ................................................. 4161
Rexiang Wang, Yapeng Zhao, Jianmin Shao

Discussion of Reverse Logistics Development Model Based on Green Supply Chain (GSC) Management .......................... 4169
Guoying Zhang

Reliability-Based Optimization Problem of Supply Chain Construction ................................................................................. 4177
Caizhong Hu, Wen Du

The Economic Effect of E-Business on Supply Chain Coordination ....................................................................................... 4183
Huiping Pan, Fortsch Sima, C. Suresh Nallan

Supply Chain Cooperation and Its Profit Division Exploration .............................................................................................. 4190
Huiping Pan

Comparative Research on the Different Bargaining Power of Competitive Manufacturers in Supply Chain ......................... 4197
Ying Wang, Jun Li

Research on Moral Hazard Behavior of the Closed-Loop Supply Chain Alliance Partners under Asymmetric Information ........................................................................................................... 4204
Qiongzhi Duan, Guohua Zhou

Research on Repurchase Strategy of Closed-Loop Supply Chain Based on Price Game ..................................................... 4210
Qiongzhi Duan, Guohua Zhou

Study on Virtual Inventory Based on 3PL enterprise as Coordination Center ................................................................. 4217
Hongyong Tian, Xiaoyu Li, Yuansin Huang, Ding Li

Research on Model of Information Sharing in Mass Customization Supply Chain .............................................................. 4224
Jianming Bai, Chun Gu

Research on Operation and Management Evaluation Index System Based on SCOR Model in 3PL Enterprise .................. 4230
Yuansin Huang, Xiaoping Qiu, Xiaoyu Li, Hongyong Tian

A Study of the Coal Collection and Distribution System Based on Supply Chain Management .............................................. 4239
Hongmei Chen, Xinxing Zhang

Trust-Based Supply Chain Partners Evaluation Mechanism .................................................................................................. 4246
Y. Zhang

Analysis and Control of Quality and Safety in the Instant Frozen Dumplings Supply Chain .......................................................... 4252
Hongliang Wang

Modeling Response Efficiency of Agile Supply Chains Based on Cost Optimization .............................................................. 4259
Daihua Gong

Research on Coordination of Perishable Products Supply Chain with the Combined Option and Quantity Discount Contract .................................................................................................................. 4265
Xuniang Bai

An Efficient Supply Chain Management Model and Application Based on RFID ............................................................... 4272
Limian Xi, Jingrong Li, Dongyang Li, Zhengrong Gu

Cooperating Emergency Strategies between Enterprises under Supply Chain Disruptions ...................................................... 4279
Weili Shi, Tiantao Guo

Optimization of Supply Chain under Cooperation Constraints ........................................................................................................... 4286
Guang Li, Daizhi Zhao

Stackelberg Coordination of Supply Chain Optimization Based on Bilevel Programming ....................................................... 4293
Jingyong Wu, Jinjun Wu, Huajing Guo

Application of Postponement Strategy to Supply Chain Optimization in Mass Customization .................................................. 4299
Min Zhang, Wenming Cheng, Ziqiang Zhang, Peng Guo

Supply Chain Management: Cracking Down the Bullwhip Effect ......................................................................................... 4307
Zhuhai Song, Yu Tao, Tielin Li
Supply Chain Distribution Network Selection Model Based on the Condition of Equilibrium .......................................................... 4313

Research on the Relationship between Upstream and Downstream Embeddedness Effect on Resource Utilizing in Manufacturing Supply Chain ...................................................................................................................... 4320

Constriction of Supplier Selection Criterion System of Green Supply Chain ........................................................................................................ 4329

Dawei Wang

Controlling the Bullwhip Effect of Supply Chain System Based on the Stability Analysis .................................................................................................................. 4336

Juan Feng, Haoyin Wang

Revenue-and-Expense Sharing Contract of Closed-Loop Supply Chain with Two Markets .............................................................................................. 4346

Xiaoping Yang, Yanru Chen, Fengmei Qin, Qinxin Xiao

Logistics Service Supply Chain Model Method Based on Reliability ..................................................................................................................... 4353

Yangzhen Li, Shaoren Wang

Research of Grey-Game in Supply Chain for Perishable Agricultural Products under Multi-to-One ................................................................................... 4359

Lijuan Wang, Xichao Sun, Hongwei Wang

Design of Incentive Mechanism Strategy in the Manufacturing/Remanufacturing System ............................................................................................ 4368

Xiaoying Bao, Yuanting Tang

Study on Informatization Evaluation System of Manufacturer-Cored Supply Chain .............................................................................................................. 4378

Wenyu Yue, Zengqiang Wang, Yan Pu

Demand Chain Management for New World Winery: Key Features of Chinese Wine Market .................................................................................. 4385

Haitao Wen, Jian Tong, Shun Yao

Profit Allocation Mechanism in Port Supply Chain Based on Shapley Values ................................................................................................. 4392

Wang Shao, Samru Li

Trade-In Contract Having Effect on Coordination Mechanism of a Three-Stage Supply Chain .................................................................................. 4399

Weiming Yi, Chun Jiang

Evaluation Index System of Regional Ecological Supply Chain’s Impact on the Environment ...................................................................................... 4406

Jinghui Sun, Keming Zhang, Xianliang Shi

Study on Departure Headway of Public Transit Based on Theory of Complex Systems .......................................................................................... 4413

Tao Qiao, Gangtie Chen

Research on Relation of Cooperation Degree and Benefit of Supply Chain Enterprises ............................................................................................ 4420

Jinming Zhu, Jing Mu, Jinya Wu

Optimization Model of Logistics Service Supply Chain Based on the Theory of Cooperation ......................................................................................... 4427

Dawei Pan, Wei Deng, Fei Shao

Research on Emergency Coordination Strategy of Supply Chain in Case of Multiple Suppliers and Single Manufacturer ........................................................................... 4434

Fengmei Qin, Yangsheng Jiang

Application of Fuzzy Forecast of Inventory Management in Auto Company ........................................................................................................ 4441

Mingmao Hu, Jingkai Ruan

Model of Logistics Network Design Based on the Quality of Green Agricultural Products Closed Supply Chain ........................................................................ 4447

Zhongquan Qiu, Yusong Yan, Di He, Xiaofei Zhang

Agricultural Products Supply Chain Contract Mechanism Based on Put Option ................................................................................................. 4455

Weiming Hao, Zhengjia Zhao, Tiantian Zheng

A Fuzzy Multi-Objective Decision Model Considering Competition for the Logistics Supplier Selection ........................................................................ 4460

Yanni Yang, Huaqun Lu, Jie Zhang

Logistics Network Planning Based on Energy Saving Point of View .................................................................................................................. 4466

Zhongbo Fan

Optimization of Remanufacturing Production Decision for Multi-Periods Returns of Discarded Products .................................................................................. 4472

Lingcheng Kong, Yingying Fan

Optimization of Recovery and Remanufacturing Decision-Making for Discarded Products under Closed-Loop Supply Chain .................................................... 4480

Jiaping Xie, Linna Chi

Study on Expansion Model of Green Supply Chain on Forestry ........................................................................................................................ 4488

Xinmei Yang, Zhiquang Zhang

Research on Supply Chain Management Information Integration Model Based on UML/XML ................................................................................... 4495

Xuefa Xiao, Yingjie Liang, Juhong Gao, Xin Li

Research on Shipping Supply Chain Risk Discern and Control .................................................................................................................. 4502

Yan Wang, Zhicheng Fan

Supply Chain Coordination Model Based on the Level of Pork Quality ............................................................................................................... 4509

Yan Xiao, Ming Ran, Jing Mo

Study of Inventory Control Based on the Supply Chain Management in Construction Enterprises ........................................................................... 4515

Xuena Feng, Hengquan Zhang

Research on 4PL Management Services Platform Based on Horizontal Supply Chain ............................................................................................ 4521

Yan Zhang, Yinghong Xie

Study on the Selection of Cluster Supply Chain Partners .................................................................................................................. 4528

Jianfeng Zhang, Jin Zhang, Junying Mo

Research on Return Channel with Product Remanufacturing in Closed-Loop Supply Chain .................................................................................. 4535

Chuang Zhai

Research on Improved Multi-Objective Optimized Model of Profit Allocation in Construction Supply Chain ........................................................................... 4541

Hengquan Zhang, Xiao Fan
<table>
<thead>
<tr>
<th>Title</th>
<th>Pages</th>
</tr>
</thead>
<tbody>
<tr>
<td>Express Network Compatibility Decision Model Based on Network Effects</td>
<td>4547</td>
</tr>
<tr>
<td>Research on Profit Allocation Model of JMI under the Supply Chain Circumstance</td>
<td>4554</td>
</tr>
<tr>
<td>Research on Supplier Chooses of Supply Chain Based on Grey System</td>
<td>4614</td>
</tr>
<tr>
<td>Multi-Project Supply Chain of Owners</td>
<td>4622</td>
</tr>
<tr>
<td>Coordination of Global Supply Chain with Disruption under the Reversion of Globalization</td>
<td>4630</td>
</tr>
<tr>
<td>Study on Supplier Selection in Supply Chain Management under Incomplete Information Market Based on Signal Game</td>
<td>4637</td>
</tr>
<tr>
<td>Research on Entropy Model of Group Decision in Integrated Supply Chain</td>
<td>4652</td>
</tr>
<tr>
<td>Uncertainty Research on Complex Supply Chain Network: Modeling Procedure Based on Inverse Gaussian Distribution</td>
<td>4656</td>
</tr>
<tr>
<td>Game Analysis of Supply Chain Financing Supervision and Violation</td>
<td>4663</td>
</tr>
<tr>
<td>Establishment of Military Supply Chain Index Evaluation System on Ecommerce Model</td>
<td>4669</td>
</tr>
<tr>
<td>Internal Mechanism of GUANXI and Supply Chain Risks Associated with Corporate Performance</td>
<td>4676</td>
</tr>
<tr>
<td>Study on Market Equilibrium of Sealed Supply Chain Based on Willingness to Pay for Food Safety</td>
<td>4686</td>
</tr>
<tr>
<td>A Modelling Framework for Construction Supply Chain Simulation Based on Multi-Agent</td>
<td>4694</td>
</tr>
<tr>
<td>Supply Chain Coordination under Disruptions by Quantity Flexibility Contract</td>
<td>4702</td>
</tr>
<tr>
<td>Research on Cooperative Supply Model of Emergency Materials</td>
<td>4712</td>
</tr>
<tr>
<td>Research on Creative Industries Cluster Supply Chain Evaluation Based on Radar Analysis Technology</td>
<td>4719</td>
</tr>
<tr>
<td>Research on Information Sharing Mechanism in Supply Chains</td>
<td>4726</td>
</tr>
<tr>
<td>Logistics Chain Capacity Calculation Method of Society System Based on Time Constraints</td>
<td>4733</td>
</tr>
<tr>
<td>Design of Electronic Products Manufacturing Industry Transparent Supply Chain Based on EPC</td>
<td>4738</td>
</tr>
<tr>
<td>Research on Coordinated Inventory Policy in Supply Chain</td>
<td>4746</td>
</tr>
<tr>
<td>Study on Logistics Outsourcing Risk Management Based on Food Supply Chain</td>
<td>4755</td>
</tr>
<tr>
<td>Supply Chain Disruption Risk Evaluation Based on TOPSIS Method with Sensitivity Analyses</td>
<td>4762</td>
</tr>
</tbody>
</table>

**Author Index**

- Chuanpeng Liu, Tao Xu, Ling Xu
- Shengyu He, Yuntao Hu
- Wentao Liao, Xueyan Zhang, Yubeng Zeng
- Xiaolai Ma, Jin Zhang, Kun Wang
- Zhizhong Chen, Ruichun He, Yinzhen Li
- Zhiguo Fan, Zhenshi Liu
- Sai Jiang
- Youfang Huang, Lang Liu, Yunzhu Wang, Xiaoping Zhang
- Zhen Li, Shuping Cheng, Qingfeng Meng
- Zhilun Jiao, Yajun Shen
- Yu Tian, Zhiliang Mai
- Haoyu Wang, Liandi Dai, Xiaojuan Ji, Yun Li, Chun Wang
- Yefeng Chen, Yun Chen
- Song Lin
- Yefeng Chen, Jun Chen
- Long Li, Shuping Cheng, Qingfeng Meng
- Youfang Huang, Lang Liu, Yunzhu Wang, Xiaoping Zhang
- Sai Jiang
- Zhiguo Fan, Zhenshi Liu
- Research on Information Sharing Mechanism in Supply Chains
- Research on Logistics Outsourcing Risk Management Based on Food Supply Chain
- Supply Chain Disruption Risk Evaluation Based on TOPSIS Method with Sensitivity Analyses