

Lecture Notes on Data Engineering and Communications Technologies

215

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The aim of the book series is to present cutting edge engineering approaches to data technologies and communications. It will publish latest advances on the engineering task of building and deploying distributed, scalable and reliable data infrastructures and communication systems.

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The Eighteenth International Conference on Management Science and Engineering Management

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Preface

Welcome to the proceedings of the Eighteenth International Conference on Management Science and Engineering Management (ICMSEM 2024), held from August 5 to 8, 2024, at Universiti Malaya, Kuala Lumpur, Malaysia. This annual conference, organized by the International Society of Management Science and Engineering Management (ISMSEM), aims to provide an effective platform for academics, researchers, and practitioners engaged in Management Science and Engineering Management (MSEM) to advance knowledge, research, and technology in these fields. This significant international platform offers participants the opportunity to collaborate, share new ideas, and contribute to the development of MSEM. Each year, new findings emerge, providing tremendous opportunities to explore advanced methodologies and technologies to address new challenges. Increasingly, prestigious experts and scientists from around the world are invited to attend the conference and share their compelling work in this field. We hope everyone finds informative topics through free communication and discussion during the conference.

The ICMSEM has been held seventeen times since 2007 in various locations across Asia, Europe, the Americas, and Oceania, significantly influencing research in MSEM. Over the past seventeen years, the ICMSEM has been successfully held in Chengdu, Chongqing, Bangkok, Chungli, Macau, Islamabad, Philadelphia, Lisbon, Karlsruhe, Baku, Kanazawa, Melbourne, Ontario, Chisinau, Toledo, Ankara, and Cape Town. All accepted papers in the proceedings for each ICMSEM have been published by high-level publishers. The accepted papers for this year's conference will be published in the Proceedings of the Eighteenth International Conference on Management Science and Engineering Management by Springer, and will be indexed in both ISTP and EI.

The ICMSEM is committed to building a platform for international cooperation, expanding scholars' global perspectives, and improving the understanding of MSEM among high-level talents. It also promotes the attraction of high-quality global scholars to this platform, enhancing their international knowledge of MSEM, facilitating international exchange, and opening a worldwide window for high-level talents. Out of the 346 manuscripts received, 116 outstanding papers from 25 countries were accepted. All full papers in this publication underwent a double-blind peer-review process, involving abstract assessments by the scientific committee, feedback to authors, submission of full papers for accepted abstracts, review of full papers by the scientific committee and panel of reviewers, feedback to authors on full papers submitted, and evaluation of revised papers to ensure content quality. These papers come from Australia, Azerbaijan, Belgium, Canada, China, Germany, India, Indonesia, Iran, Italy, Japan, Laos, Lithuania, Malaysia, Moldova, Pakistan, Russia, Saudi Arabia, Singapore, South Africa, Spain, Sweden, Thailand, Turkey, the UK, and the USA. Through the ICMSEM platform, international academic research collaboration among authors has been enhanced, with 91 of the accepted manuscripts being co-authored by researchers from different countries.

Promoting international exchange and cross-discipline, the ICMSEM achieves the goal of cutting-edge academic achievements in MSEM academia. The papers in the proceedings are divided into six sections based on the research areas and topics covered: Data Analysis, Decision Support System, Data-driven Modeling, Digital Operation, Digital Strategy, and Supply Chain Management. The main topics of the 18th ICMSEM include various topical issues, where experts from different fields will be invited to deliver keynote lectures on diverse subjects. Scholars from Universiti Malaya, Sapienza University of Rome, National University of Singapore, University of Cape Town, University of Leeds, Beijing University of Chemical Technology, China University of Political Science and Law, The University of Adelaide, and so on will present their research and engage in discussions in the parallel sessions. As an academic exchange platform, the parallel sessions enable scholars in the related fields to engage in academic discussions, solve problems, explain their research and creations, give opinions or suggestions, share cutting-edge trends, and broaden their ideas for future research.

The ICMSEM has made significant progress over the past decade, overcoming initial challenges in establishing an international platform to enhance cooperation and exchange among scholars from different countries. The proportion of international collaborative manuscripts has reached 78.4%. The ICMSEM aims to provide an international platform for experts, scholars, and technical professionals worldwide in MSEM and the related fields to exchange the latest research results and further promote scientific progress. The forum AI-aided Scientific Journal Report of Management Science in Engineering 2023: Comprehensive Analysis and Emerging Trends invites renowned experts to conduct profound discussions and suggest improvements for evaluating journals in MSEM. ISMSEM established the Advanced Awards to encourage further cutting-edge research in the field, awarding outstanding papers that significantly contribute to innovative practice and applications in MSEM. Based on the contributions of scholars from all parties, the ICMSEM will surely offer a feast of knowledge on the deep integration of MSEM, provoke full discussions, and become a platform for publishing significant progress.

We extend our sincere thanks to all participants and express our gratitude to everyone who has supported the development of the ICMSEM. We are also grateful to the prestigious schools and institutions that supported us: the National Academy of Sciences and Ministry of Science and Education, Azerbaijan; Academy of Sciences of Moldova, Moldova; Academy of Sciences of the Republic of Uzbekistan, Uzbekistan; Institute of Fuzzy Logic Systems, Tokyo University of Science, Japan; Brock University, Canada; University of Castilla-La Mancha (UCLM), Spain; University of Belgrade, Serbia; Gazi University, Turkey; Universiti Malaya, Malaysia; Sichuan University, China. Special thanks to the ISMSEM and Universiti Malaya for organizing this conference. We are also grateful to Springer's Lecture Notes on Data Engineering and Communication Technologies for publishing the conference proceedings. We thank Prof. Dr. Noor Azina Ismail for serving as the general chair, Dr. Diana Binti Abdul Wahab and Assoc. Prof. Dr. Mohd Kamal Mohd Nawawi for chairing the organizing committee. Thanks to all the members of the organizing committee, the local arrangement committee, the program committee, and all participants for their great support. Finally, we thank all the authors for their excellent conference papers, which are of great value for education and research, creating a new pattern of innovation with diverse participation and synergy.

In the course of continuous MSEM research, many new development trends have emerged. For implementing greater and more innovative development activities, our work must further focus on AI-enabled MSEM. The ISMSEM Advancement Prize will be awarded next year to excellent papers, and we plan to continue the novel and successful ICMSEM in the future.

August 2024

Jiuping Xu
Noor Azina Ismail
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Asaf Hajiyev

Organization

ICMSEM 2024 was organized by International Society of Management Science and Engineering Management (ISMSEM), Sichuan University, University Malaya. It was held in cooperation with Lecture Notes on Data Engineering and Communications Technologies (LNDECT) of Springer.

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Contents

Advancement of Data Analysis, Decision Support System, Data-Driven Modeling on the Eighteenth ICMSEM Proceedings	1
<i>Jiuping Xu</i>	
Data Analysis	
Application of Latent Class Analysis in Identifying Digital Adoption Typologies	17
<i>Noor Azina Ismail</i>	
Factors Affecting Purchase Intention with Perceived Quality as a Moderating Variable Using the Planned Behavior Theory Approach	27
<i>Reski Putra Utama</i>	
Effects of Financial Knowledge on Rationality of Financial Behavior in College Student: A Mediation Model	40
<i>Xueying Cheng, Yongge Niu, and Yufei Zou</i>	
How Does Digital Transformation Affect Firms' Innovative Search Behavior? From the Perspective of Network Embedding	52
<i>Xue Yang, Chen Li, Ting Zeng, and Yu Liu</i>	
Crossing the Digital Divide in Older People: Analysis of Influencing Factors on the Willingness of the Elderly to Use Mobile Payment	76
<i>JiaLe Hou and Jingdong Chen</i>	
A Study of the Effect of Budgetary Family Financial Education on College Students' Career Adaptability	92
<i>Yan Li, Yongge Niu, and Yuxiang Shen</i>	
Female Chairmen, Gender Turnover, and Corporate Tax Aggression	107
<i>Wenxin Che, Yanlin Li, Ziyang Li, and Yuying Chen</i>	
An Empirical Study of Career Success Differences in Employee Career Adaptability Types	120
<i>Qingsong Zhu, Jiaqiang Zhang, Yujia Wang, and Lucas Smith</i>	
Research on Determinants of Invention Patent Examination Durations: The Patents of Photovoltaic Industry at the CNIPA	133
<i>Jinjiang Yan, Yu Li, Miao Sun, Yong Huang, and Yishan Du</i>	

Study on the Mechanism of the Influence of Person-Organization Fit on Career Success: Mediating Role of Career Adaptability	150
<i>Qingsong Zhu, Yilin Wan, Belle Han Bao, and Lan Li</i>	
Childhood Socioeconomic Status and Its Impact on College Students' Career Adaptability: The Mediating Role of Delayed Gratification	163
<i>Xi Liu, Yongge Niu, and Yufei Zou</i>	
A Real-Time Impact Study of New Product Release on Theme Park Brand Reputation: Using Social Media Data from Shanghai Disneyland	174
<i>Biyi Deng and Yu Liu</i>	
Impact of Urbanization on Eco-environment in Zhejiang Province: An Empirical Analysis Based on VAR Model	193
<i>Ting Lan, Zhiyi Meng, and Chang Zhai</i>	
The Influence of Brand Culture on Consumer Purchasing Behavior Intention	209
<i>Tiantian Tan, JingDong Chen, and Mo Chen</i>	
Couples' Joint Holding and Total Factor Productivity of Family Firms: Evidence from China	224
<i>Mengyu Zheng, Xuanqi Chen, and Yingkai Tang</i>	
Inquiry Letters and Looking-Forward Information Disclosure: An Empirical Analysis Based on Big Data Analysis	238
<i>Lanxin Qian, Yanjun Chen, Yanlin Li, and Ziyang Li</i>	
Motivational Climate Uncertainty Perception and Organizational Citizenship Behavior: A Serial Mediation Model	253
<i>Shiwei Sun, Yiqing Yin, and Han Ren</i>	
Can Effective Internal Control Inhibit Greenwashing Behaviors? - Based on the Moderating Effect of Military Experience of Senior Executives and CSR Report Assurance	267
<i>Ruining Guo, Tao Luo, Ziyang Li, Yanlin Li, and Yuying Chen</i>	
Green Credit Policy and Corporate Investment Efficiency: Evidence from China	283
<i>Shizhe Ding, Ziling Yu, Xueying Zhang, and Jiayi Yin</i>	
Research on the Impact of Institutional Investors' Shareholding on Enterprise Digital Transformation	299
<i>Yucheng Zeng, Shuqi Wang, and Tianlong Gu</i>	

The Impact of Audience Numbers on Tipping Behavior in User-Generated Live Streaming	312
<i>Yali Chen, Haidi Hua, and Banggang Wu</i>	
Research on the Function Mechanism of Enterprise Safety Culture	324
<i>Zhaohui Gou, Zhen Xiong, Ming Wen, Yao Wang, Siqi Hu, Ping Zeng, and Soudthida Hoongsengpha</i>	
Green Airport Development Paths and Trends Exploration Based on a Visual Knowledge Graph Analysis	347
<i>Jingqi Dai, Jiayi Zhong, and Jie Zhao</i>	
Decision Support System	
Transition to Sustainability: A DEA Evaluation of Agricultural Systems in EU Candidate and Neighbouring Countries	365
<i>Alexandru Stratan, Viorica Lopotenco, Eugenia Lucasenco, and Liliana Staver</i>	
Low Carbon Emissions Based Economic Optimization Scheme for Prefabricated Construction Supply Planning	378
<i>Mengyuan Zhu, Meilin Li, Chenglu Guo, Chuanhui Liao, and Xun He</i>	
Queuing Systems with Moving Servers and Complicated Structures	390
<i>Yuri K. Belyaev, Asaf H. Hajiyev, and Turan Sh. Mammadov</i>	
An Evolutionary Game Theory Model for Chinese Laggard Firms Technology Catching up	402
<i>Liping Li, Zhen Luo, Haiyan Sun, Yongqing Tang, Huadong Wan, Qisheng Chen, Yan Wang, and Jing Zhong</i>	
Techno-Econo-Environmental Analysis of Hybrid PV-Battery System Integrated with Drinking Water Treatment Plant	417
<i>Fengjuan Wang, Yi Shi, and Minna Ma</i>	
A Bi-level Optimization Model for Municipal Solid Waste Disposal Using Gasification Technology	425
<i>Yi Shi, Fengjuan Wang, and Minna Ma</i>	
The Formation and Response of Family Education Dilemma in the Context of Educational Urbanization	440
<i>Min Wu, Yuhan Shi, Xuanyuan Chen, Dan Wu, and Zihan Hu</i>	

A Scheme for Assessing the Usefulness of Business Video Reviews Based on Sentiment Analysis	449
<i>Ziqiang Zeng, Xinyi Zhuang, Weiye Zhang, and Yurui Chang</i>	
A Collaborative Governance Model of Sino-Foreign Higher Education Institutions in the Post-crisis Era	461
<i>Yuxi He, Weili Zhen, and James McDougall</i>	
A Differential Game Study in the Global Carbon Reduction Actions	474
<i>Zhimiao Tao, Qitao Li, and Rongxiang Hu</i>	
An Optimization Approach for the Subsidy Mechanism Determination of Food Waste Treatment	490
<i>Yawen Deng, Chenxi Zhang, and Mingliang Tan</i>	
Assessing Academic Entrepreneurship Efficiency in China’s National University Science and Technology Parks: A DEA Analysis	505
<i>Tao Wang, Wenguang Gan, Kaifan Luo, Vladimir Fastovich, and Chao Yu</i>	
Optimizing a Monitoring Scheme for CO ₂ Geological Sequestration: An Environmentally Sustainable and Cost-Efficient Approach	524
<i>Chengwei Lv, Shansen Wei, Hong Wang, and Yukuan Xu</i>	
The Uncertain Decision on Power and Green Certificates Trading of Electricity Sellers Under Renewable Portfolios Standards	540
<i>Ning Ma and Yu Nie</i>	
Research on the Development Efficiency of Sports Tourism Demonstration Bases in Sichuan and Chongqing Regions Based on Network Concerns	553
<i>Linlan Huang, Yuyan Luo, Rui Dai, and Yixuan Fan</i>	
Optimisation Strategies for Coalbed Methane Extraction and Utilisation Based on Economic and Environmental Equilibrium, Under Carbon Trading Mechanism	565
<i>Yue Xiang, Lurong Fan, Xiangjun Jan, and Nizhu Pan</i>	
Data-Driven Modeling	
Modified Kernel Smoothers for the Right-Censored Partially Linear Models	585
<i>Syed Ejaz Ahmed, Dursun Aydin, and Ersin Yilmaz</i>	

Investigation of Tubular Solar Still with Watermelon Seeds Bio Waste as Thermal Storage Medium: An Economic Analysis	599
<i>Syed Noman, Fausto Pedro García Márquez, and Muthu Manokar Athikesevan</i>	
Research on the Temporal and Spatial Differences in the House-Purchase Pressure for Urban Residents in China: Based on the Quadrant Model of House-Purchase Pressure	612
<i>Hongbo Zhu, Weilai Ding, and Xi Wu</i>	
Analyzing Longitudinal Data Using Machine Learning with Mixed-Effects Models	633
<i>Pakize Yiğit and Syed Ejaz Ahmed</i>	
Wind Turbine Engineering Management: A Real Case Study with Acoustic Monitoring	647
<i>Isaac Segovia Ramirez, Alfredo Peinado Gonzalo, Pedro José Bernalte Sánchez, and Fausto Pedro García Márquez</i>	
Simultaneous Estimation of Skewness Parameters	657
<i>Syed Ejaz Ahmed and Elfreda Narkuwor Nartey</i>	
The Behaviour of Solutions the Mixed Boundary Problem to Nonlinear Elliptic Equations in Orlicz-Morrey Spaces	670
<i>Tahir S. Gadjevi, Konul Yasinli, and Yasin Rustamov</i>	
Improving the Efficiency of Regression Estimators in an Inverse Gaussian Regression Model	689
<i>Pannipa Rintara, Janjira Piladaeng, S. Ejaz Ahmed, and Siwaporn Phukongtong</i>	
A Study on the Evaluation of the Effect of Theme Songs in Sports Events: The Construction of Index System	702
<i>Ping Li, Xiaowen Jie, and Xiaoping Li</i>	
Classification of Gas Turbine Fault Group Using Machine Learning Methods	716
<i>Gleb Deriabin, Ziqiang Zeng, and Vitalii Blinov</i>	
Designing a Secure Environment for EHR in Ethereum by Employing RSA and NTRU	726
<i>C. Hema and Fausto Pedro García Márquez</i>	

Identification of Rumor Refuters Based on an Explainable Machine Learning Framework	741
<i>Zongmin Li, Yujie Zhou, Wenjing Shen, and Liming Zhang</i>	
A Scientific Knowledge Dissemination and Pandemic Spread Interplay Model	753
<i>Yi Zhang, Maziar Nekovee, Wanjie Tang, Ting Ni, Yue Wu, and Huiyong Yi</i>	
A Pythagorean Fuzzy Reference-Dependent Regret Theory-Based Model for Assessing Seawater Desalination Projects	777
<i>Na Zang, Chenhong Yu, Chonghui Zhang, and Tomas Balezentis</i>	
Evolutionary Analysis of Symbiotic Strategy Between Chinese and Western Medicine from the Perspective of Competition	802
<i>Ziyang Geng, Ting Zeng, Tao Wang, and Likaiying Deng</i>	
Linguistic Z-Number Belief-Based Evidential Reasoning Approach for Energy Assessment	814
<i>Yue Xiao, Huchang Liao, and Fausto Pedro García Márquez</i>	
Controlling Auction Failure and Stabilizing Land Price: A Two-Stage Auction Mechanism with Reference Effect	827
<i>Yilin Wu, Ruwen Tan, and Jing Zhang</i>	
Advancement of Digital Operation, Digital Strategy, Supply Chain Management on the Eighteenth ICMSEM Proceedings	839
<i>Jiuping Xu</i>	
Digital Operation	
Can Different Quality Products Stop Retailers from Invading Store Brands?	855
<i>Hongyu Wang, Yunqi Li, Chunxiang Guo, and Xinyi Chen</i>	
Energy Management of Air Conditioning System Using Phase Change Material	879
<i>Rehan Khurshheed, Mehmood Ali, and Asad A. Zaidi</i>	
Analysis of the Influence of ESG on the Investment Efficiency of Enterprises	893
<i>Yingkai Tang, Yiling Zhao, and Aqsa Manzoor</i>	

Research on the Impact of Peers' Early Publication of Patents on Innovation Rhythm of Enterprises	905
<i>Xue Yang, Qiuyu Zhou, Jing Li, and Wei Liu</i>	
The Impact of Mixed Ownership Reform on the Investment Efficiency of State-Owned Enterprises in China	926
<i>Sheng Ma, Wanting Li, and Chenqi Lu</i>	
Research on the Influencing Factors of Consumer Impulsive Purchasing Intention in E-commerce Live Broadcasting	945
<i>Meng Xue, Chang Zhai, and Zhiyi Meng</i>	
The Impact of Green Bond Issuance on Corporate ESG Performance: Evidence from Chinese Listed Companies	960
<i>Nixu Xiang, Haixin Xu, Xi Zhang, and Cancan Yang</i>	
Executive Compensation and Labor Investment Efficiency: A Perspective Based on Psychological Perception	974
<i>Hong Wang, Yueyue Liao, and Jinghao Chen</i>	
The Influence of Corporate Political Connections on Public and Private Debt Financing in the Emerging Market: Evidence from China	990
<i>Jie Zhang and Shengyao Xiao</i>	
Factors Effecting Return on Equity of Commercial Banks: An Empirical Evidence of Pakistani Banking Sector	1004
<i>Asif Kamran, Nadeem A. Syed, Syed Babar Ali, and Abbas Ali</i>	
ESG Rating Disagreement, Financing Costs, and Enterprise Value	1019
<i>Mengxi Ren, Chenxi Cao, and Zhenyi Shen</i>	
Barriers to Knowledge Management Beyond Organisational Boundaries in the South African Construction Sector	1033
<i>Abimbola Windapo, Jeremy Osborne, and Nnedinma Umeokafor</i>	
Do Green Credit Policies Lead to Greener Companies?	1045
<i>Zihan Liu, Xite Yang, and Aqsa Manzoor</i>	
Research on the Impact of Materialism and Platform Social Responsibility Identity on the Use Intention of Xianyu Users	1059
<i>Zilu Yang, Wanqing Feng, and Lu Huang</i>	
Research on the Influence of Confucian Management on Corporate Green Innovation	1072
<i>Yucheng Zeng, Huiyi Chen, and Yukun Lin</i>	

Influence of Project Management Maturity on Project Success: Case Study of the Zambian Energy Sector	1089
<i>Abimbola Windapo, Paul Mwanza, and Amanda Filtane</i>	
Optimization of Corporate Performance Measures by Factor Analysis and Entropy Weighting - Based on Controlling Shareholder Equity Pledge	1100
<i>Qianwei Ying, Rongxing Ouyang, Yue Wu, and Sirui Wang</i>	
Digital Transformation of Sales Process Management: A Case of Project-Oriented Large Manufacturing Enterprise in China	1112
<i>Junyi Ma, Shan Li, and Ole Baranowski</i>	
The Production Management of a Single Vehicle Manufacturer Under the “Double Credit” Policy	1121
<i>Chen Fu and Fengjie Zhang</i>	
Digital Strategy	
Accelerating the Digitalization of Automobile Retailing in China: A Multi-level Perspective on Impacts of COVID-19 on the Sector	1133
<i>Chunxiao Wen and Patrick L'Espoir Decosta</i>	
Non-state Shareholders' Governance and Tunneling in SOEs	1150
<i>Heyong Huang and Hao Huang</i>	
Non-State-Owned Shareholders' Governance and Financialization of State-Owned Enterprises	1163
<i>Yuhang Ren and Jing Liu</i>	
Study on the Influence of Directors' Network Centrality on Listed Companies' Participation in OFDI	1175
<i>Xin Xia, Yuhan Wang, and Aqsa Manzoor</i>	
Blue for High-Tech? A Conceptual Framework of the Effect of Background Color on Continuance Use Intention in Virtual Live Streaming: Presence and Psychological Distance	1189
<i>Rouya Jiang, Minjie Zhou, Shan Li, and Saranchana Atipanya</i>	
Does E-Procurement Adoption Help Textile Industry of Pakistan for Recruitment	1202
<i>Asif Kamran, Nadeem A. Syed, Osama Ahmed, and Afaq Hussain</i>	

Achieving Sustainable Human Resource Development: Qualitative Study on Job Burnout Among Airline Flight Attendants	1229
<i>Ying Li, Wanyi Xia, John Thomas Delaney, and Chenlu Li</i>	
Study on the Influence of Equity Structure on the Risk of Rural Commercial Banks—Intermediation Effect Test Based on Agriculture-Related Loans	1241
<i>Wenli Wang, Zhongyang Liu, James Hueng, and Xinghua Dang</i>	
Geographic Diversification and Bank Risk: Evidence from Chinese Commercial Banks in the Context of Belt and Road	1258
<i>Wenli Wang, Lu Liu, Mingsheng Tian, and C. James Hueng</i>	
How Leader Identification Promotes Upward Ingratiation: A Relational Identification Theory Perspective	1277
<i>Qinyi Yang, Junxian Li, Xuan Yu, and Yuanyuan Dai</i>	
The Research Status and Trend of Cadre Education in China: Bibliometric Analysis Based on CiteSpace	1289
<i>Min Wu, Yong Zhan, Xuanyuan Chen, Dan Wu, and Roger C. Shouse</i>	
Corporate Environmental Information Disclosure and Green Innovation Level: Evidence from China	1300
<i>Ziwei Fan and Ruifeng Ma</i>	
Research Progress of Green and Low-Carbon Exploitation of Petroleum and Natural Gas—Based on Knowledge Graph Perspective	1314
<i>Junqiao Li, Bin Jiang, Muhammad Hashim, Li Zhang, Liyun Zhang, Senqi Pei, and Zhikang Li</i>	
Research on the Problems and Countermeasures of Cross Border E-Commerce Between China and Germany Under the Background of “Silk Road E-Commerce”	1327
<i>Lin Zhang and Wolfgang Wilhelm</i>	
Exploring Drivers of National Competitiveness: Insights from Productivity, Innovation and Infrastructure	1344
<i>Alexandru Stratan, Daniela Duca, and Dragos Duca</i>	
Determinants of China’s Industrial Advantage: Evidence from Eighteen Manufacturing Sub-industries in Forty-Two Countries	1356
<i>Xinxin Xu and Wenting Zheng</i>	

A Systematic Review on Research of Individuals' and Households' Flood Adaptation Behavior Using Questionnaire Methods	1373
<i>Xiaohong Zhang, Ting Ni, and Mark Pelling</i>	
Evolutionary Analysis of Synergistic Development of Green and Low-Carbon Industries in Chengdu-Chongqing Region	1388
<i>Letian Xiao, Wenhao Wang, Yuyan Luo, and Xu Liu</i>	
Project Portfolio and Construction Management Practices Impacting Urban Infrastructure Performance: Theoretical Perspectives	1400
<i>Fabio Companie and Abimbola Windapo</i>	
Is Digitization the Antidote to Sustainable Financial Development?	1415
<i>Qianqiu Yang, Guichuan Zhou, and Anni Liu</i>	
An Investigation of Enablers and Barriers to Off Site Manufacturing (OSM): A Meta-synthesis Approach	1431
<i>Ehsan Saghatforoush, Mahnaz Ezy, and Hamidreza Abbasianjahromi</i>	
Supply Chain Management	
Research on the Low-Carbon Transformation of Building Supply Chain Driven by Digital Technology	1449
<i>Ling Wan</i>	
Securing the Food Supply Chain: Harnessing Blockchain Technology for Protection and Transparency	1462
<i>M. Azam Zia, Amna Kanwal, Muhammad Asif, Muhammad Hashim, and Sami Ullah</i>	
The Research of Consumers' Purchase Intention Based on the Influence of Advertising Creativity of Online Video Advertisements	1477
<i>Ruo Yang, Yongzhong Yang, Yu Zhang, Xiaoting Song, and Mohsin Shafi</i>	
Digital Transformation and Corporate Supply Chain Resilience Under the COVID-19 Shock	1487
<i>Ziyu Wang, Luanqing Fang, and WeiKe Li</i>	
Research on Ordering Decision of Fresh E-commerce Retailers Considering Waste Aversion and Stock-Out Aversion	1499
<i>Hongyi Yang, Tianyao Zhong, Chunxiang Guo, and Xinyi Chen</i>	
Urban Logistics Drone Delivery Route Planning: An Application of Operation Research Towards Smart Cities	1525
<i>Rui Qiu, Yu Ding, Jidi Cao, and Shuhua Hou</i>	

Identifying Priority Export Products: Case of the Republic of Moldova 1538
Gheorghes Duca, Alexandru Stratan, and Tatiana Gutium

Stochastic Optimization for Humanitarian Logistics: Pre-positioning
and Multi-period Distribution of Relief Supplies 1550
Yusheng Wang, Qingze Zhang, Zaiwu Gong, and Ke Jiang

Antecedents of Chinese Consumers’ Purchase Intentions Toward
Hybrid Electric Vehicles (HEVs) 1561
Chiang Ni, Chuan Chen, Lixian Qian, Adit Rastogi, and Yuang Li

Risk Evaluation of Fresh Produce Supply Chain in China Under Carbon
Peaking and Carbon Neutrality Goals 1575
Xianglan Jiang, Wenjing Shen, and Yinping Mu

Floating Offshore Wind Farm Maintenance Assessment Policies
for Vessels Assignment 1591
*Jesús María Pinar-Pérez, Alberto Pliego-Marugán,
Diego Ruiz-Hernández, and Roberto Morales-Arsenal*

Multi-objective Optimization Model of Gas Station Renovation
and Expansion Based on Genetic Algorithm 1601
Qi Zhang, Yalou Tian, Zongmin Li, and KeYing Zhong

A Bi-level Multi-objective Facility Location Model for Smart Dustbins
with Customer Utility 1614
Yanfang Ma, Zhen Li, Xiaojun Zeng, and Xiaoyu Wang

Optimal Scheduling Towards Emergency Response of Mobile Energy
Storage System Considering Different Priorities of Users 1626
*Jianglin Ma, Chengwei Lv, Chuandang Zhao, Huangrong Sun,
and Faquan Li*

Multi-aircrafts Cooperation for Safety Operations in Complex Aviation
Emergency Rescue Environments 1638
Bo Zhang, Haichuan Su, Yanfei Deng, and Lei Xu

Optimal Scheduling Design of Distributed Wind-PV-hydro Power
System Integrated with Pumped Storage Technology via Multi-objective
Model 1645
Zhijie Song, Yuan Wang, and Tingting Liu

Enhanced Emergency Operations: Leveraging UAV Fleets
for Comprehensive Response 1661
*Carlos Quiterio Gómez Muñoz, Guillermo González de Rivera,
Javier Garrido Salas, Mariano Alberto García Vellisca,
Micael Gallego, and Maria Cristina Rodríguez Sánchez*

Dynamics Simulation of NGO Relief Goods Supply Systems
Post-flooding Considering Deprivation Levels 1673
Zihan Li, Yuhang Wang, Yutong Gan, and Yi Lu

Author Index 1687