

2021 International Conference on Public Management and Intelligent Society (PMIS 2021)

**Shanghai, China
26 – 28 February 2021**



IEEE Catalog Number: CFP21AJ1-POD
ISBN: 978-1-6654-1142-4

**Copyright © 2021 by the Institute of Electrical and Electronics Engineers, Inc.
All Rights Reserved**

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

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

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

IEEE Catalog Number:	CFP21AJ1-POD
ISBN (Print-On-Demand):	978-1-6654-1142-4
ISBN (Online):	978-1-6654-3872-8

Additional Copies of This Publication Are Available From:

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

CURRAN ASSOCIATES INC.
proceedings
.com

2021 International Conference on Public Management and Intelligent Society (PMIS) **PMIS 2021**

Table of Contents

Preface	xiv
Committees	xv
Reviewers	xvi

Session 1: Intelligent Management and Big Data Public Applications

Research on the Realistic Dilemma and Path of Intelligent Social Governance Under the Background of Big Data	1
<i>Shijing Wang (Wuhan University of Science and Technology, China)</i>	
Research on Government Affairs Publicity of Provincial Government Websites in Big Data Environment	6
<i>Ying Sun (Party school of Liaoning provincial Party committee, China)</i>	
Research on Intelligent Mode of Public Service Driven by Big Data	12
<i>Yahui Huang (Wuhan University of Science and Technology, China)</i>	
Analysis on Promoting the Belt and Road International Road Transport for Economic Cooperation and Trade Facilitation in China-ASEAN Area	17
<i>Tian Fang (Research Institute of Highway Ministry of Transport, Beijing)</i>	
Impact of Public Health Emergencies on Sustainable Poverty Reduction in Rural Areas: Sichuan Case	22
<i>Hong Li (Sichuan Agricultural University, China) and Siyu He (Sichuan Agricultural University, China)</i>	
Public Security Big Data Application and Public Safety Governance	28
<i>Jiyuan Zhang (Sichuan Police College, China) and Chenyu Zhang (Sichuan Police College, China)</i>	
Research on the Current Situation of Equalization of Basic Public Health Service Supply and Intelligent Optimization Countermeasure—Take Jiande City, Zhejiang Province as an Example	33
<i>Yuxin Lan (Wuhan University of Science & Technology, China) and Yanbin Zhang (Wuhan University of Science & Technology, China)</i>	

Innovation and Practice of Training Management of Major Directors Under the Dual Backgrounds of Intelligent Society and Epidemic Prevention and Control .37.....	
	<i>Xiaozhuo Wei (Jiangsu University of Science and Technology, China), Xing Dong (Jiangsu University of Science and Technology, China), Yunpeng Li (Jiangsu University of Science and Technology, China), and Wenjun Shao (Jiangsu University of Science and Technology, China)</i>
Analysis on Public Crisis Management Issues and Decision-Making Based on Big Data in the Post-Epidemic Era .41.....	
	<i>Ming Yang (South-central University for Nationalities, China), Li-min Huang (South-central University for Nationalities, China), and Hong-qiang Zhang (Naval University of Engineering, China)</i>
Research on Social Organizations Participating in Public Crisis Management in the Internet Era .46.....	
	<i>Bo Chen (Wuhan University of Science and Technology, China), Xuemian Zhang (Wuhan University of Science and Technology, China), Xingyuan Ji (Chongqing Technology and Business University, China), and Wutong Xu (Zhengzhou University of Business, China)</i>
Review of Domestic Information Chain Research Based on Bibliometrics .50.....	
	<i>Yan Huang (Shandong Vocational College of Science and Technology, China)</i>
Evaluation of Inter-Provincial Medical and Health Service Quality and Influencing Factors Based on Factor Analysis .54.....	
	<i>Zhiyong Zhang (Wuhan University of Science & Technology, China) and Yanbin Zhang (Wuhan University of Science & Technology, China)</i>
Research on Financial Shared Service Mode Application for Enterprise Group: From the Practice of Chongqing Branch of CCC First Highway Engineering Group .58.....	
	<i>Dan Ma (Nanjing University of Aeronautics & Astronautics, China), Lulu Fu (Nanjing University of Aeronautics & Astronautics, China), Zhouzhou Zhu (Nanjing University of Aeronautics & Astronautics, China), and Yintong Wang (Nanjing Xiaozhuang University, China)</i>
Research on Smart Vending Machine of Gym Under the Concept of Public Service .62.....	
	<i>Zheqian Liu (Hanseu University, South Korea)</i>
A Study on the Chain Mediating Mechanism Effects of Reducing Employees' Turnover Intention through Management .66.....	
	<i>Xiaojun Zhao (Institute of Psychology; University of Chinese Academy of Sciences, China) and Yiwen Chen (Institute of Psychology; University of Chinese Academy of Sciences, China)</i>
Analysis of the Social Interpersonal Function of Biden's Inaugural Speech Based on Big Data Technology .71.....	
	<i>Xiaochen Wang (Dalian Maritime University, China) and Yang Gao (Dalian Maritime University, China)</i>
The Research on Work Stressors of the Front-Line Law Enforcement Personnel in Shunyi CUAEB.75	
	<i>Cong Wang (Institute of Disaster Prevention, China), Cheng Zhang (Beijing City University, China), and Hongyu Zhao (Law Enforcement Bureau in Shunyi District of Beijing City, China)</i>

Empirical Study on R&D Investment and Financial Performance of GEM Companies Under Compensation Incentive Regulation .79.....	79
<i>Guangqiang Han (Bohai University, China) and Chenxue Shao (Bohai University, China)</i>	
Non-Punitive Supervision and Performance of Independent Directors: Empirical Evidence Based on Inquiry Letters Send by Stock Exchange .84.....	84
<i>Hong Wang (Sichuan University, China) and Rui Li Jiang (Sichuan University, China)</i>	
Urban Residents' Leverage and Housing Inequality: An Empirical Research Based on CFPS Data.90.	90
<i>Yi Yang (Wuhan Huaxia University of Technology, China) and Wenwen Zhou (Wuhan Huaxia University of Technology, China)</i>	
Corporate AI Strength Attention and Short-Term Performance: The Moderating Role of Public Opinion Supervision and Bankruptcy Threat .95.....	95
<i>Litian Chen (Zhejiang Gongshang University, China), Wenjing Wang (Zhejiang Gongshang University, China), and Yufeng Wang (Zhejiang Gongshang University, China)</i>	
Research on Multidimensional Poverty of Chinese Rural Elderly Women: Based on the 2018 CLHLS Data and Alkire-Foster Measurement Model .101.....	101
<i>Jing Zhao (Beijing Jiaotong University, China)</i>	
On the Impact of "Sister City Relationship" on China's Outward Foreign Direct Investment: A Study Based on Evidences of BRI Participating Countries .105.....	105
<i>Yian Wang (Wuhan University of Technology, China) and Fang Han (Wuhan University of Technology, China)</i>	
Manufacturing Cost Accounting Method Under Accounting Informationization .111.....	111
<i>Zhaolei Wang (Rizhao Polytechnic, China) and lei Zhu (Rizhao Polytechnic, China)</i>	
The Realization Path of Digital Transformation of China's Economic Development Based on SWOT Analysis .115.....	115
<i>Lei Zhu (Rizhao Polytechnic, China) and Zhaolei Wang (Rizhao Polytechnic, China)</i>	
Research on Community Information Dissemination Under Public Emergency .119.....	119
<i>Na Chan (Wuhan Institute of Technology, China), Qingxi Zhang (Wuhan Institute of Technology, China), and Peipei Li (Wuhan Institute of Technology, China)</i>	
Research on the Management of Information Disclosure Quality of GEM Companies in China .123	123
<i>Yifang Li (Bohai University, China) and Meng Chen (Bohai University, China)</i>	
Life Imprisonment System in China .127.....	127
<i>Jing-lu Zhang (Zhengzhou University, China)</i>	
The Challenges and Responses of Government Emergency Management in the Era of Big Data .131	131
<i>Wenlong Zhang (Wuhan University of Science and Technology, China), Yefang Zhou (Wuhan University of Science and Technology, China), and Jinbo Wang (Huzhou University, China)</i>	

Research on the Influencing Factors of China's Manufacturing Export Growth from the Perspective of Four-Dimensional Dynamic Decomposition: Taking Twenty-four EU Economies as an Example .135.....	
	<i>Tianhao Dong (Nanjing University of Aeronautics and Astronautics, China) and Jing Deng (Nanjing University of Aeronautics and Astronautics, China)</i>
Research on the Poverty Reduction Effect of The Basic Pension Insurance System for Urban and Rural Residents---Based on a Survey of 13 Provinces in the East, Central and West .139.....	
	<i>Ya-Nan Zhang (Xiangtan University, China) and Guo-Zhang Yan (Hunan University, China)</i>
Financial Slack, Operational Slack and Firm Performance During Episodes of Financial Crises: A Panel Data Analysis .144.....	
	<i>Shun-Ho Chu (Macau University of Science and Technology, China), Yueming Ren (Macau University of Science and Technology, China), Huimin Cai (Macau University of Science and Technology, China), Yu Xu (Macau University of Science and Technology, China), and Siyuan Bao (Macau University of Science and Technology, China)</i>
Stage Performance Rating Model of Corporate Social Responsibility .149.....	
	<i>Yang Bai (Eastern Liaoning University, China) and Xiaojian Liu (Eastern Liaoning University, China)</i>
Development and Application of the Rural Communities Risk Assessment Model .153.....	
	<i>Cui Ding (China University of Labor Relation, China) and Guoyou Ren (China University of Labor Relation, China)</i>
Research on the Job Satisfaction of Grid Workers in Urban Communities from the Perspective of Governance Capability Modernization: The Dual Mediating Effect of Occupational Identity and Job Involvement .159.....	
	<i>Chao Kang (Neijiang Normal University, China; Mokwon University, Korea)</i>
A Study on the Sustainability of Provincial Urban Employees' Basic Pension Insurance Funds.167..	
	<i>Nianxing Yuan (Wuhan University of Science & Technology, China) and Junnan Zhang (Wuhan University of Science & Technology, China)</i>
Based on DID to Study the Price of Agricultural Products in Chengdu Under the Novel Coronavirus Pneumonia .171.....	
	<i>Yuqing Lou (Sichuan Agricultural University, China), Xiaoyu Liu (Sichuan Agricultural University, China), Qinya Tang (Sichuan Agricultural University, China), and Yufeng Wang (Sichuan Agricultural University, China)</i>
The Model and Development Trend of Mutual-aid Service for the Older Adults in Rural China .175	
	<i>Hui He (Xiangtan University, China) and Qingqing Song (Xiangtan University, China)</i>
Research on Comprehensive Evaluation of Digital Economy Development Level in Typical Areas of China .181.....	
	<i>Zhonghui Xie (Harbin University of Commerce, China)</i>
The Application of SSANOVA Modeling in the Analysis of Formant Dynamics of Glide-Vowel Sequences in Southern Fujian Hakka .185.....	
	<i>ChunAn Qiu (Guangdong University of Foreign Studies, Guangdong) and Lei Wu (Guangdong University of Foreign Studies, Guangdong)</i>

Research on Intelligent Management of Student Achievement Data Based on Improved Apriori Algorithm .191.....	.....
<i>Yupeng Zhang (Weifang Vocational College, China) and Chunfang Wang (Weifang Vocational College, China)</i>	
Causes and Countermeasures of Police-Related Cyber Public Sentiment Crisis .195.....	.....
<i>Shiwen Cui (Shandong Police College)</i>	
Research on fire Risk Assessment of Subway Operation Based on Fuzzy Analytic Hierarchy Process .199.....	.....
<i>Wanqing Wang (Yunnan University of Finance and Economics, China), Xiuyi Yao (Yunnan University of Finance and Economics, China), and Jie Liu (Kunming University of Science and Technology, China)</i>	
Investigation of Farmer (Orchard) Willingness to Pay for Climate Change. A Case Study of KP Pakistan. .203.....	.....
<i>Muhammad Rizwanullah (Xiangtan University, China) and Lizhi Liang (Xiangtan University, China)</i>	
Analysis on Security Management for Supply Chain Under Emergencies .208.....	.....
<i>Wan Wang (China Institute of standardization, China), Fengjiao Xu (China Institute of standardization, China), Chao Zhang (China Institute of standardization, China), and Tingxin Qin (China Institute of standardization, China)</i>	
Multi-Dimensional Thinking on the Transformation of Public Administration in China Under the Background of Computer Internet .212.....	.....
<i>Jingjing Lin (Nanchang JiaoTong Institute, China) and Jia Yu (Nanchang JiaoTong Institute, China)</i>	
Analysis of Crowd Distribution Optimization in Inpatient Department of Hospital Based on Evacuation Behavior Pattern .216.....	.....
<i>QiMing Wang (Wuhan University of Technology, China), Dan Liu (Wuhan University of Technology, China), He Cheng (Wuhan University of Technology, China), and JieWen Yang (Wuhan University of Technology, China)</i>	
Intelligent Application of Financial and Tax big Data in Reducing Enterprise Tax Risk Management .221.....	.....
<i>Naifen Liu (Dongying Vocational Institute, China)</i>	

Session 2: Research on Smart Society and Smart Technology Innovation

Study on the Economic Effects and Solving Obstacles to the Establishment of FTA between China and Russia Under the Docking of the "Belt and Union" .225.....	.....
<i>Yongzhi Liu (Harbin Huade University, China) and Yanping Sun (Harbin Huade University, China)</i>	
Research on the Transfer of Rural Labor Force Under the Construction of Intelligent Society .229.....	.....
<i>Jianan Zhang (Wuhan University of Science & Technology, China) and Shuoyi Zhu (Wuhan University of Science & Technology, China)</i>	

Government-Enterprise Cooperation Under the Construction of Smart Cities in Hangzhou, China .234.....	234
<i>Ziang Zhou (Guangdong Ocean University, China) and Jihaeng Lee (Guangdong Ocean University, China)</i>	
Urban Sustainability Under the 2019-nCoV Epidemic — Government Service Technology and Public Management in Intelligent Society — Taking the Government Service Mode of Fengxian District of Shanghai as an Example .238.....	238
<i>Yang Zhao (Soochow University, China), Yun Jia Zhao (Soochow University, China), Pei Chen (Soochow University, China), and Liu Chang Yang (Soochow University, China)</i>	
Research on Financing Efficiency of Software and Information Technology Service Industry on GEM .242.....	242
<i>Zhengchao Zhang (Bohai University, China) and Dongni Zhang (Bohai University, China)</i>	
Financial Time Series Prediction Based on Adversarial Network Generated by Attention Mechanism .246.....	246
<i>Jiali Xu (Shanghai University of Finance and Economics, China)</i>	
Analysis on Risks and Development Countermeasures of Central Bank Digital RMB Issue .250.....	250
<i>Daoqin Han (Jilin University of Finance and Economics, China) and Yifei Zhao (Jilin University of Finance and Economics, China)</i>	
Research on "Internet+" Community Elderly-Care Service Model: A Case Study of Changzhou .255	255
<i>Yuang Xue (Hohai University), Zhili Xu (Hohai University), Qian Liu (Hohai University), and Xingshan Chen (Hohai University)</i>	
The Influence of Payment by Category on the Quality of Medical Service in Public Hospitals from the Perspective of Smart City .260.....	260
<i>Yifan Mei (Wuhan University of Science & Technology, China) and Junnan Zhang (Wuhan University of Science & Technology, China)</i>	
A Multi-Party Secure SaaS Cloud Accounting Platform Based on Lattice-Based Homomorphic Encryption System .264.....	264
<i>Jing Lin (Jiangxi University of Finance and Economics, China) and Jiawei Qian (East China Normal University, China)</i>	
Calculation and Analysis of the Contribution Rate of Agricultural Technological Progress in Guizhou Province .268.....	268
<i>Lingjun Wang (Guizhou University of Finance and Economics, China), Xinlei Wang (Guizhou University of Finance and Economics, China), Dongbing Huang (Guizhou University of Finance and Economics, China), and Jianfeng Yuan (Guizhou University of Finance and Economics, China)</i>	
Research on the Influence of Talent Housing Policy on Urban Human Capital Level from the Perspective of Smart City .273.....	273
<i>BaoLin Zeng (Wuhan University of Science & Technology, China) and Junnan Zhang (Wuhan University of Science & Technology, China)</i>	
From Blockchain to Digital Twin Community: A Technical Framework for Smart Community Governance .277.....	277
<i>Qing Geng (Beijing Jiaotong University, China) and YingGe Du (Beijing Jiaotong University, China)</i>	
Analysis of External Cost of Private Cars and Ground Buses in Beijing .281.....	281
<i>Bing Jiang (Beijing Jiaotong University, China)</i>	

Research on the Impact of Housing Price Changes on Residential Consumption Under the Dual Cycle Based on a Dynamic Local Equilibrium Model .285.....	285
<i>Lina Tao (Anhui Xinhua University, China)</i>	
Tort Liability For Damage Caused By Self-Driving Cars .292.....	292
<i>Junyi Yin (Chinese University of Hong Kong, China)</i>	
Research on the Path of Optimizing China's Digital Government Construction Under the Background of Intelligent Society .296.....	296
<i>Shuoyi Zhu (Wuhan University of Science & Technology, China) and Jianan Zhang (Wuhan University of Science & Technology, China)</i>	
Research on the Development of Information Industry in the Context of Media Self Integration and its Integration Innovation .300.....	300
<i>Yuxin Miao (Yunnan University Of Finance And Economics, China)</i>	
Research on Monitoring Methods of Organic Pollution in Watershed Water Environment Based on Machine Learning .304.....	304
<i>Wei Zheng (Laiwu Vocational and Technical College, China), Yingying Cui (Laiwu Vocational and Technical College, China), Jing Sui (Laiwu Vocational and Technical College, China), Fushan Zheng (Laiwu Vocational and Technical College, China), Mingjuan Bi (Laiwu Vocational and Technical College, China), and Tao Wei (Laiwu branch of Jinan Ecological Environment Bureau, China)</i>	
Is Supplementary Health Insurance an Effective Supplement to Basic Health Insurance in China? A Two-Part Model and Quantile Approach .308.....	308
<i>Hao Yang (Jiangxi University of Traditional Chinese Medicine)</i>	
Research on China's 's Fertility Policy Under the Background of Intelligent Society: Based on CGSS2017 Data Analysis .312.....	312
<i>Junnan Zhang (Wuhan University of Science & Technology, China) and Yanbin Zhang (Wuhan University of Science & Technology, China)</i>	
Research on Intellectual Property Rights of Small and Medium Sized Enterprises Based on Bibliometrics .316.....	316
<i>Yan Huang (Shandong Vocational College of Science and Technology, China)</i>	
Study on the Gridding Public Management of the Community Under the Background of Intelligent Society .320.....	320
<i>Hang Gao (Shandong University of Political Science and Law, China)</i>	
R&D Intensity and Corporate AI Strength Attention: The Moderating Role of Coercive Pressure and Mimetic Pressure .324.....	324
<i>Litian Chen (Zhejiang Gongshang University, China), Saige Xue (Zhejiang Gongshang University, China), and Junhong Zhong (Zhejiang Gongshang University, China)</i>	
New Trend and Prospect of Japan's Direct Investment in China Under the Belt and Road .329.....	329
<i>Jidong Yao (Beijing City University, China)</i>	
On the Similarities and Differences Between "Labor" of Distribution According to Work and "Labor" of Labor Elements .333.....	333
<i>Yuan Qi (Anhui Vocational College Of Defence Technology, China) and Sheng-chun Liu (Hefei Vocational and Technology College, China)</i>	

Research on One Belt One Road International Road Transport Development Strategies Under Regular Epidemic Prevention Situation .337.....	337
<i>Tian Fang (Research Institute of Highway Ministry of Transportation, China)</i>	
Transportation Accessibility and Criminal Rate: Empirical Analysis Based on PSTR Model .341.....	341
<i>Zhou Zhou (Beijing Jiaotong University, China)</i>	
Strategies for Optimizing the Application Environment of Management Accounting in Commercial Banks .345.....	345
<i>Zhengjun Wang (Lanzhou University of Technology, China), Zhiting Dong (Lanzhou University of Technology, China), and Na Du (Lanzhou University of Technology, China)</i>	
Application Innovation of Internet of Things Technology in Container Multimodal Transport in New Era .350.....	350
<i>Gaojie Yan (Tianjin Maritime College, China)</i>	
An Empirical Analysis of the Factors Influencing the Income Gap Between Urban and Rural Areas in China .354.....	354
<i>Haopeng Zhang (Beijing Jiaotong University, China)</i>	
Measurement Method of Digital Economy Scale in China .358.....	358
<i>Siqi Yang (Jiangxi University of Finance and Economics, China) and Xingyun Li (Jiangxi University of Finance and Economics, China)</i>	
Design of a Portable Life Search and Rescue Platform for Complex Disaster .363.....	363
<i>Shijia Cao (Tsinghua University, China), Zhanhui Sun (Tsinghua University, China), Soso Diwondi Hermine Gaelle (Beijing GS Technology CO., Ltd., China), and Guofeng Su (Tsinghua University, China)</i>	
What Influences the Demand and Utilization of Intelligent Health Products Among the Elderly: Analysis Based on the Survey Data from Shaanxi Province China .367.....	367
<i>Lijian Wang (Xi'an Jiaotong University) and Xiuliang Dai (Xi'an Jiaotong University)</i>	
Research on Development and Challenges of Chinese Medical Artificial Intelligence .371.....	371
<i>Ziang Zhou (Guangdong Ocean University, China) and Jihaeng Lee (Guangdong Ocean University, China)</i>	
On the Financing of Small and Medium Sized Enterprises Under the Mode of Internet Finance .376	376
<i>Zhengjun Wang (Lanzhou University of Technology, China) and Junxing Xu (Lanzhou University of Technology, China)</i>	
Research on the Information Technology Service for the aged Library users .380.....	380
<i>Yan Huang (Shandong Vocational College of Science and Technology, China)</i>	
Analysis on the Process and the Development Elements of Nanotechnology Industrialization .384.	384
<i>Baogui Du (Northeastern University, China), Hyonchol Ri (Northeastern University, China), and Jonghyok Pak (Northeastern University, China)</i>	
The Realization Path of the Development of Smart Elderly Care Institutions in the Post-Epidemic era .388.....	388
<i>Feng Tang (Wuhan University of Science and Technology, China) and Yun Zhou (Wuhan University of Science and Technology, China)</i>	

Obstacles and Countermeasures for the Construction of the Collaborative Mechanism of Innovation and Technology in the Guangdong-Hong Kong-Macao Greater Bay Area .392.....	
<i>Qing Li (Guangdong university of foreign studies, China), Tingjun He (Guangdong university of foreign studies, China), Yonghui Han (Guangdong university of foreign studies, China), and Xiaofei Luo (Guangdong university of foreign studies, China)</i>	
Research on Early Warning Index System of Infectious Diseases .396.....	
<i>Song-nian Hu (Hubei University of Chinese Medicine, China), Dan Chen (Hubei University of Chinese Medicine, China), and Xiao Cheng (Hubei University of Chinese Medicine, China)</i>	
Impact Analysis of Sea Level Rising Problems Based on Mathematical Modeling .400.....	
<i>Zikai Wu (Shanghai Business School, China) and Xinke Cheng (Shanghai Business School, China)</i>	
Construction and Applied Research of Cloud Platform for Financial Shared Service Center .404.....	
<i>Weimin Xi (Jiangxi Investment Group Limited) and Kai Liu (Xinyu University)</i>	
Intelligent Financial Construction Path Under the Background of Cloud Resources .408.....	
<i>Fan Yang (Shandong Youth University Of Political Science, China)</i>	
Research on the Intelligentization of Accounting in the Information Technology Environment.412.	
<i>Junhong Ma (Tianjin Light Industry Vocational Technical College, China) and Zehua Wang (Tianjin Open University, China)</i>	
Author Index 417.	