Table of Contents

Research on Safety Behavior Identification and Real-Time Intervention Mechanism of Construction Site Based on Artificial Intelligence	1
Xiangyi Wang	
Design and Optimization of Digital Precision Operation and Maintenance System for Metering Box Based on Internet of Things	6
Bingyi Wei, Juan Du, Tenghao Li, Hefeng Zhang, Lu Wang, Shixin Song	
Research on Health Early Warning and Decision Support Model of Smart Breeding Based on Machine Learning Algorithm, Internet of Things and AI	12
Runbo Zhang	4.0
Semantic Recognition and Visual Generation Mechanism of Public Brand Packaging Design in AIGC Empowerment Area	18
Lan Ma, Qinjian Yang, Weixin Zhu	
Research on the Probability of Anti-Submarine Aerial Depth Charge Hits Based on Particle Swarm Optimization	24
Xiang Li	
Research on Crop Planting Strategy Optimization Based on Dynamic Multi-Objective Optimization and Genetic Algorithm	31
Xin Guo	
Research on Cargo Volume Forecasting and Vehicle Scheduling Based on LSTM- Linear Regression and Integer Programming	41
Wei Huang, Ruipeng Dong, Hongyu Liao	
Global Spatial Analysis and Policy Impact Evaluation of Cybercrime Based on Multimodal Modeling	51
Yutong Jiang, Xi Wang	
Research on Intelligent Customer Service Question-Answering System Based on Sentence-BERT and Semantic Retrieval	59
Chenyue Wang	
Research on the Influencing Mechanism of Consumers' Fruit and Vegetable Consumption Willingness Based on Regression Analysis and Mediation Model	69
Ziyi Wei	_
Multi-Factor Multi-Objective Optimal Industry Investment Strategy Jiarui Xu, Wenshuo Zhang	76

Olympic Medal Prediction Based on Multi-Task Hybrid Modelling	86
Kaibing Yang, Jiahao Zhang, Yuefeng Chen	
Spatiotemporal Collaborative Optimization of Campus Bike-Sharing Systems: An Integrated Framework for Scheduling, Layout and Maintenance	94
Le Yang, Mengtian Li, Tianle Shen	
A Game-Theoretic Optimization Research for Sustainable Tourism Taxation under Overtourism	100
Zhibo Yao, Ke Hu, Qi Chen	
Research on Ecological Balance of Agricultural Ecosystems Based on Dynamic Modeling and Numerical Simulation	108
He Yin, Bo Cui, Jiaying Xie	
China's Carbon Emission Trajectory: A Prophet Model Analysis of Key Factors and Strategies Toward the 2030 Peak Goal	121
Wenbo Zhao, Zixuan Ge, Juncheng Zhao	
Research on Sustainable Tourism Management Model Based on Multivariable Dynamic Optimization Algorithm	127
Yikun Wang	
The Fusion Research of Financial News Sentiment Quantification and Gold Price Time- Series Modeling	137
Xiawei Wang, Shengfeng Guo, Zhangting Wei	
A Study on Urban Relocation and Renewal Strategies Based on Multi-Model Optimization Algorithms	147
Yuchun Wang, Xiangcheng Li, Heng Ma	
Multi-Dimensional Risk Assessment of the Impact of Extreme Weather on the Insurance Industry and Research on Strategies to Enhance Urban Resilience	157
Chenyu Zhang	
Analysis of the Current Situation of New Energy Vehicle Battery Recycling Technologies	164
Huang Yubo	
Generalizing the 15-Puzzle Using Group Theory: Exploring D-Dimensional Puzzles with Unequal Sides and Multiple Empty Blocks	170
Qihe Yang	
Innovative Practice of Applying PLC Technology in Automation Control of Mechanical and Electrical Equipment	177

Algorithm of Heterogeneous High Performance System Based on Deep Learning Model	183
Yafang Li	
Research on Delay Optimization of Telemedicine Real-Time Vital Signs Monitoring	188
System Based on 5G MEC	
Shuguang Xie	
Construction and Practice of Intelligent Preservation Technology System for	194
Agricultural and Forestry Products after Harvest	
Xigoling Xu, Weiren Tang, Shuanliang Wang, Jianhong Li	