

# **2025 5th Asia-Pacific Conference on Communications Technology and Computer Science (ACCTCS 2025)**

**Shenyang, China  
23-25 April 2025**

**Pages 1-661**



**IEEE Catalog Number: CFP25Z87-POD  
ISBN: 979-8-3315-2464-7**

**Copyright © 2025 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:	CFP25Z87-POD
ISBN (Print-On-Demand):	979-8-3315-2464-7
ISBN (Online):	979-8-3315-2463-0

**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](mailto:curran@proceedings.com)  
Web: [www.proceedings.com](http://www.proceedings.com)

CURRAN ASSOCIATES INC.  
**proceedings**  
.com

# 2025 5th Asia-Pacific Conference on Communications Technology and Computer Science (ACCTCS) **ACCTCS 2025**

## Table of Contents

Message from General Chair .....	xxxi
Conference Committee .....	xxxii
Reviewers List .....	xxxiii

## ACCTCS 2025

Magnetic Anomaly Detection Based on Robust Principal Component Analysis and Orthonormal Basis Functions .....	1
<i>Xingen Liu (Peking University, China), Zifan Yuan (Peking University, China), and Mingyao Xia (Peking University, China)</i>	
Multi-View Point Cloud Registration Guided by 3D Bounding Boxes for Collaborative Reconstruction of Non-Cooperative Space Targets .....	7
<i>Fanxin Li (East China University of Science and Technology, China), Jianjun Yi (East China University of Science and Technology, China), and Liwei Chen (East China University of Science and Technology, China)</i>	
The Research on Robotic Arm Motion Planning Based on Deep Learning and Hybrid Path Planning .....	16
<i>Jiacheng Gao (East China University of Science and Technology, China), Jianjun Yi (East China University of Science and Technology, China), Xiancheng Ji (East China University of Science and Technology, China), Yuhao Ouyang (East China University of Science and Technology, China), Weipeng Guo (East China University of Science and Technology, China), and Tian Shen (East China University of Science and Technology, China)</i>	
Real-Time Trajectory Planning and Tracking Control of Four-Wheel Steering Vehicles .....	22
<i>Hangbo Ye (East China University of Science and Technology, China), Liansheng Wang (East China University of Science and Technology, China), Xinke Zhang (East China University of Science and Technology, China), Jianjun Yi (East China University of Science and Technology, China), Chaojie Wang (East China University of Science and Technology, China), and Fuhao Lin (East China University of Science and Technology, China)</i>	

A Complex Curve Motion Trajectory Optimization Method in CNC System .....	28
<i>Yanshu Lang (Shenyang Normal University, China), Huiyan Liu (Shenyang Normal University, China), and Lipeng Zhang (Zhoukou Normal University, China)</i>	
GCM-YOLO: A Multi-Scale Multi-View Infrared Ship Target Detection Model Based on the Improved YOLOv8 .....	33
<i>Weipeng Guo (East China University of Science and Technology, China), Jianjun Yi (East China University of Science and Technology, China), Lelun Xu (East China University of Science and Technology, China), Jiacheng Gao (East China University of Science and Technology, China), Tianji Zhu (East China University of Science and Technology, China), and Feilong Wang (East China University of Science and Technology, China)</i>	
Research on Optimization and Application of Retrieval-LLM-NER Method .....	39
<i>Tian Shen (East China University of Science and Technology, China), Jianjun Yi (East China University of Science and Technology, China), Zongzhe Ni (East China University of Science and Technology, China), Xiancheng Ji (East China University of Science and Technology, China), Jiacheng Gao (East China University of Science and Technology, China), and Weipeng Guo (East China University of Science and Technology, China)</i>	
Identification of the Optimal Color Model for Rail Anomaly Detection Based on Multi-Detector Performance Evaluation .....	45
<i>Liyuan Yang (Kunming University, China; Universiti Teknologi MARA, Malaysia), Ghazali Osman (Universiti Teknologi MARA, Malaysia), Muhammad Firdaus Mustapha (Universiti Teknologi MARA, Malaysia), Safawi Abdul Rahman (Universiti Teknologi MARA, Malaysia), and Shunyu Zhang (Kunming University, China)</i>	
Multimodal Aspect-Level Sentiment Analysis Based on Attention Mechanism and Multi-Layer Perceptron .....	51
<i>Boxue Liu (Yanbian University, China), Guozhe Jin (Yanbian University, China), Yahui Zhao (Yanbian University, China), Zhenghao Huang (Yanbian University, China), Meiyu Du (Yanbian University, China), and Rongyi Cui (Yanbian University, China)</i>	
Gradient Boosting Decision Tree with LSTM for Investment Prediction .....	57
<i>Chang Yu (Northeastern University, USA), Fang Liu (Yale University, USA), Jie Zhu (Virginia Tech, USA), Shaobo Guo (Illinois Institute of Technology, USA), Yifan Gao (University of TSA, USA), Zhongheng Yang (Northeastern University, USA), Meiwei Liu (Independent Researcher, China), and Qianwen Xing (The University of Chicago, USA)</i>	
Research on Flight Conflict Resolution Method for UAV Based on a Modified Sparrow Search Algorithm .....	63
<i>Li Bowen (Air Force Engineering University, China) and Zhang Zhihao (Air Force Engineering University, China)</i>	
Joint Renewable Energy and Traffic Prediction for Cooperative Green Cellular Networks .....	68
<i>Yao Hu (Chongqing Technology and Business Institute, China)</i>	
Forestry Text Classification Based on DeepSeek in Forestry Domain Hint Engineering .....	73
<i>Zhaoyi Guo (Leshan Normal University, China)</i>	

Integrated Sequential Semantics with a Dual-Tower Time-Aware Recommendation Model .....	77
<i>Yonggui Wang (Liaoning Technology University, China) and Yuan Liu (Liaoning Technology University, China)</i>	
An Enhanced YOLOv5 Algorithm with Coordinate Attention for Efficient Tuberculosis Bacteria Detection .....	82
<i>Jiahao Yi (Guizhou Medical University, China), Xiaoya Zhang (Guizhou Medical University, China), and Yuannong Ye (Guizhou Medical University, China)</i>	
Optimization Study on Field Deployment of Lightweight YOLO Model for Sugarcane Pest and Disease Recognition .....	87
<i>Tan Weili (Guangxi Science &amp; Technology Normal University, China), Xie Yongsheng (Guangxi Science &amp; Technology Normal University, China), and Zhuo Yanyan (Guangxi Science &amp; Technology Normal University, China)</i>	
Research on Self-Calibration Method of Underwater Array Error .....	92
<i>Gao Tiande (Northwestern Polytechnical University, China) and Zhao Yizhe (Northwestern Polytechnical University, China)</i>	
Group Relation Policy Optimization Algorithm in RAG Accuracy Improvement Implementation ....	98
<i>Wenmin Wang (China Mobile Online Service Co., Ltd., China), Qiang Sheng (China Mobile Online Service Co., Ltd., China), Chunya Li (China Mobile Group Design Institute Co., Ltd, China), Peilin Zhang (China Mobile Online Service Co., Ltd., China), and Junpeng Ma (China Mobile Online Service Co., Ltd., China)</i>	
Application of Machine Learning and Deep Learning in Medical Image Segmentation - An Example of Liver CT Images .....	104
<i>Pengyu Feng (Xi'an Jiaotong-Liverpool University, China)</i>	
Machine Learning Based on NDVI and Meteorological Drought Index in Forest Fire Early Warning .....	109
<i>Jianxu Wang (Northeast Forestry University, China)</i>	
GBC: GameScript Generation using BERT Classification —Enhancing Interactive Narratives with LLM .....	114
<i>Jiahua Zhang (Nanyang Technological University, Singapore)</i>	
Research on Intelligent Driving Target Tracking Technology Based on Multi-Sensor Fusion Algorithm .....	119
<i>Qingde Li (Nanjing Polytechnic Institute, China) and Renqun Wang (Nanjing Polytechnic Institute, China)</i>	
Research on NPC Three-Level Modulation Strategy Based on Quantum Genetic Algorithm .....	127
<i>Lu Kuang (Wuhan Vocational College of Software and Engineering, China)</i>	
Optimization of Lightweight Convolutional Neural Networks in Real-Time Motion Posture Recognition .....	133
<i>Zhiqiang Chen (Xinjiang University, China)</i>	
Speckle-Assisted Binocular 3D Vision Sensing Method for Intelligent Cutting .....	140
<i>Yang Xiao (Wuhan University of Technology, China), Yubo Guo (Wuhan University of Technology, China), and Yong Yin (Wuhan University of Technology, China; Wuhan Label Laser Science &amp; Technology CO., LTD, China)</i>	

A YOLO Architecture Optimized with Deformable Sparse Convolution and Context-Aware Attention .....	145
<i>Yang Yuan (Sichuan University of Science &amp; Engineering, China; Sichuan Tourism University, China), Yuan Li (Sichuan Tourism University, China), and Shuangyu Li (Sichuan Tourism University, China)</i>	
Design and Research of an Electric Power System Reliability Evaluation Model Based on Artificial Intelligence Algorithms .....	149
<i>Zhao Zhang (State Grid Info &amp; Telecom Group, China) and Xuan Wang (State Grid Information &amp; Telecommunication Group Co, Ltd, China)</i>	
Design of Intelligent Transportation System Based on Neural Network .....	156
<i>Linbing Lyu (RWTH Aachen University, Germany), Siyuan Li (RWTH Aachen University, Germany), and Haichao Zhang (RWTH Aachen University, Germany)</i>	
Multi-Dimensional Analysis and Variability Modeling of Meteorological Data in Microtopographic Regions of Power Grids .....	161
<i>Xingyun Chen (Economic and Technical Research Institute of State Grid Fujian Electric Power Co., Ltd, China), Xiang Chen (Economic and Technical Research Institute of State Grid Fujian Electric Power Co., Ltd, China), Xiaogang Li (Economic and Technical Research Institute of State Grid Fujian Electric Power Co., Ltd, China), and Xiaolin Shi (Economic and Technical Research Institute of State Grid Fujian Electric Power Co., Ltd, China)</i>	
Research on Data Link Monitoring and Comprehensive Evaluation Model Based on Data Central Station .....	167
<i>Zhanxin Qi (State Grid Information &amp; Telecommunication Co., Ltd., Beijing China-Power Information Technology Co., Ltd., China), Fan Wu (State Grid Information &amp; Telecommunication Co., Ltd., Beijing China-Power Information Technology Co., Ltd., China), Shuyan Li (State Grid Information &amp; Telecommunication Co., Ltd., Beijing China-Power Information Technology Co., Ltd., China), and Jian Guan (State Grid Information &amp; Telecommunication Co., Ltd., Beijing China-Power Information Technology Co., Ltd., China)</i>	
Research on User Abnormal Load Identification Method Based on Edge Computing .....	173
<i>Zhang Jiajun (State Grid Zhejiang Electric Power Co., LTD. Kaihua County Power Supply Company, China), Jiang Zhibo (State Grid Zhejiang Electric Power Co., LTD. Kaihua County Power Supply Company, China), Luo Dan (State Grid Zhejiang Electric Power Co., LTD. Kaihua County Power Supply Company, China), Ren Bin (State Grid Zhejiang Electric Power Co., LTD. Kaihua County Power Supply Company, China), and Zhou Yuhao (State Grid Zhejiang Electric Power Co., LTD. Kaihua County Power Supply Company, China)</i>	
The Design of an Intelligent Off-Road Beacon Vehicle Based on Multi-Point GPS Positioning and Acoustic Navigation .....	181
<i>Pengxuan Yan (Zhejiang Gongshang University, China), Ziao Qu (Zhejiang Gongshang University, China), and Tongqing Lv (Zhejiang Gongshang University, China)</i>	
Design and Research of a Martial Arts Routine Scoring System Based on Pose Recognition .....	189
<i>Zhichen Wang (Guangdong University of Science and Technology, China)</i>	

Research on Integrating Low-Cost IMU and Acoustic Positioning for Indoor Robot Navigation .....	196
<i>Ziao Qu (Zhejiang Gongshang University, China), Pengxuan Yan (Zhejiang Gongshang University, China), and Tongqing Lv (Zhejiang Gongshang University, China)</i>	
Outdoor Precise Navigation for Autonomous Vehicles through the Fusion of GPS/IMU and Acoustic Localization .....	203
<i>Tongqing Lv (Zhejiang Gongshang University, China), Ziao Qu (Zhejiang Gongshang University, China), and Pengxuan Yan (Zhejiang Gongshang University, China)</i>	
Financial News Analysis Capability Assessment Standard: An End-to-End System Implementation .....	209
<i>Chenglong Yin (Sofia University "St. Kliment Ohridski", Bulgaria)</i>	
Research on Estimation Method of Wire Harness Outer Diameter .....	214
<i>Nan Qian (AVIC Chengdu Aircraft Industrial (Group) CO, China), Keyu Xiang (AVIC Chengdu Aircraft Industrial (Group) CO, China), Hengyi Gao (AVIC Chengdu Aircraft Industrial (Group) CO, China), Yang Yu (AVIC Chengdu Aircraft Industrial (Group) CO, China), and Sanyuan Zhao (AVIC Chengdu Aircraft Industrial (Group) CO, China)</i>	
Research and Application of Intelligent Writing Technology for Electric Power Documents Based on Large Models .....	220
<i>Linyu Zhang (State Grid Information and Communication Industry Group, China), Nanxi Zhou (State Grid Information and Communication Industry Group, China), Zhen Qiu (State Grid Information and Communication Industry Group, China), Meng Ming (State Grid Information and Communication Industry Group, China), Dongmei Cui (State Grid Information and Communication Industry Group, China), and Yu Qin (State Grid Information and Communication Industry Group, China)</i>	
Construction and Application Analysis of Coronary Heart Disease Medical Technology Innovation Knowledge Graph Based on Deep Learning .....	225
<i>Min Wang (Beijing City University, China), Chuhan Zhang (Beijing City University, China), Zixuan Zheng (Beijing City University, China), and Chen Zhao (Beijing City University, China)</i>	
A Method for Intelligent Optimization Algorithms to Automatically Generate LLM Test Data .....	230
<i>Wei Xie (State Grid Fujian Electric Power Co., Ltd. Electric Power Science Research Institute, China), Jian Qian (State Grid Fujian Electric Power Co., Ltd. Electric Power Science Research Institute, China), Yangdi Li (State Grid Fujian Electric Power Co., Ltd. Electric Power Science Research Institute, China), Jianye Huang (State Grid Fujian Electric Power Co., Ltd. Electric Power Science Research Institute, China), Yanrong Zheng (Yingda Media Investment Group Co., Ltd, China), and Yanan Liu (Yingda Media Investment Group Co., Ltd, China)</i>	
Research on the Performance of Different Machine Learning Algorithms in Hepatitis C Diagnosis .....	235
<i>Wei Guo (University of Science and Technology Liaoning, China), Shuijin Rong (University of Science and Technology Liaoning, China), and Hao Liu (University of Science and Technology Liaoning, China)</i>	

Performance Study of Bulk Heterojunction Organic Synaptic Transistors Based on Polymer Blends .....	241
<i>Yixin Zhang (Fuzhou University, China)</i>	
Human Organ Functional Tissue Units Image Segmentation Based on UNeXt50 .....	246
<i>Jingsheng Zeng (North China University of Technology, China)</i>	
Research on Support Vector Machine in Automobile Evaluation and Decision Making .....	250
<i>Shuijin Rong (University of Science and Technology Liaoning, China), Wei Guo (University of Science and Technology Liaoning, China), and Hao Liu (University of Science and Technology Liaoning, China)</i>	
Research on Rapid Networking Method Based on Portable Cable Testing Device .....	255
<i>Chunhua Zhou (AVIC Chengdu Aircraft Industrial (Group) CO, China), Hengyi Gao (AVIC Chengdu Aircraft Industrial (Group) CO, China), Sanyuan Zhao (AVIC Chengdu Aircraft Industrial (Group) CO, China), Yang Yu (AVIC Chengdu Aircraft Industrial (Group) CO, China), and Keyu Xiang (AVIC Chengdu Aircraft Industrial (Group) CO, China)</i>	
Research on Electromagnetic Interference of Arc Discharge on X-ray Detectors .....	261
<i>Xingfa Liu (State Key Laboratory of Power Grid Environmental Protection, China), Guangkai Yu (China Electric Power Research Institute, China), Jinbin Li (State Grid Hubei Electric Power Research Institute, China), and Zheyuan Gan (China Electric Power Research Institute, China)</i>	
Research on Intelligent Scheduling Application for Raw Material Warehousing Based on Transformer Neural Network .....	266
<i>Jiang Shuaichen (Guangxi China Tobacco Industry Co., Ltd, China), Ren Haiyan (Guangxi China Tobacco Industry Co., Ltd, China), Han Jingmin (Guangxi China Tobacco Industry Co., Ltd, China), Chen Tangfu (Guangxi China Tobacco Industry Co., Ltd, China), Song Wenlin (Guangxi China Tobacco Industry Co., Ltd, China), and Tang Xujing (China Information Technology Designing &amp; Consulting Institute Co., Ltd., China)</i>	
Interpretable Multi-Resolution Mixing Neural Network for Tool Condition Monitoring .....	271
<i>Chenglin Yi (Chongqing University of Posts and Telecommunications, China), Qingqing Huang (Chongqing University of Posts and Telecommunications, China), and Yan Han (Chongqing University of Posts and Telecommunications, China)</i>	
Intelligent Resource Scheduling in Cloud-Fog Computing: An Integrated Approach Based on Deep Learning, Game Theory, and Heuristic Algorithms .....	277
<i>Li Run (Guangxi International Business Vocational College, China), Cao Jun (Beihai Health School, China), and Lu Zhixiang (Nanning University, China)</i>	

Application of Microseismic Monitoring Technology in Water Hazard Prevention for Coal Mine Roofs: An Optimization Approach Based on Adaptive Boosting Genetic Algorithm (ABGA) .....	283
<i>Yimiao Xi (Shaanxi Xiaobaodang Mining Co., Ltd, China), Xiaojun Wang (Shaanxi Xiaobaodang Mining Co., Ltd, China), Yue Ma (Shaanxi Xiaobaodang Mining Co., Ltd, China), Xiangzhou Kong (Guizhou Ansheng Energy Limited Company, China), Xiaobin Wen (Guizhou Ansheng Energy Limited Company, China), Heng Guo (Xi'an Research Institute Co. Ltd., China Coal Technology and Engineering Group Corp, China), Bofan Li (Xi'an Research Institute Co. Ltd., China Coal Technology and Engineering Group Corp, China), Weihua Yao (Xi'an Research Institute Co. Ltd., China Coal Technology and Engineering Group Corp, China), and Xin Fan (Xi'an Research Institute Co. Ltd., China Coal Technology and Engineering Group Corp, China)</i>	
Precision Agriculture: Weed and Crop Detection in Real-Time using an Optimized YOLOv8s Model .....	289
<i>Chenghui Yang (Northwest Minzu University, China), Tao Zhou (Northwest Minzu University, China), Weiye Song (Northwest Minzu University, China), and Libing Zhou (Northwest Minzu University, China)</i>	
Research on Smart Grid Platform System Based on Cloud Computing .....	294
<i>Wan Peng (State Grid Ningxia Electric Power Co., Ltd., China), Wang Liang (State Grid Ningxia Electric Power Co., Ltd., China), Guo Fei (State Grid Ningxia Electric Power Co., Ltd., China), Shi Yuanyuan (State Grid Ningxia Electric Power Co., Ltd., China), Yan Zhenhua (Ningxia Electrical Power Research Institute of State Grid, China), Ma Guowu (Ningxia Information and Communication Network Technology Co. Ltd., China), and Wu Jiajing (Ningxia Information and Communication Network Technology Co. Ltd., China)</i>	
Dangerous Action Recognition Algorithm Based on Motion Capture .....	300
<i>Fengcheng Tang (Bohai University, China) and Zhuo Chen (Bohai University, China)</i>	
Remote Sensing Image Segmentation Algorithm Based on Improved SegNet .....	307
<i>Wei Song (Bohai University, China) and Wei Zhang (Bohai University, China)</i>	
Wind Farm Cabin Track Robot Inspection Path Based on Intelligent Algorithm .....	315
<i>Jianbin Chen (Huadian (Fujian) Wind Power Co., Ltd., China) and Jinyao Liu (Huadian (Fujian) Wind Power Co., Ltd., China)</i>	
A Study on Predicting Campus Tailgating Intrusion using Data Fusion Technology Based on IoT and Cloud Computing in the Security Management of Smart Campuses at Private Universities .....	321
<i>Yuankun Zhu (Guangxi University of Foreign Languages, China) and Wei Wei (Guangxi University of Foreign Languages, China)</i>	
A Data-Driven Method for Extracting Temporal Characteristics of Load in Typical Industrial and Commercial Users .....	326
<i>Zike Guo (Foshan Power Supply Bureau of Guangdong Power Grid Co., Ltd., China), Peng Yang (Foshan Power Supply Bureau of Guangdong Power Grid Co., Ltd., China), Xue Du (Foshan Power Supply Bureau of Guangdong Power Grid Co., Ltd., China), Wanmei Zhao (Foshan Power Supply Bureau of Guangdong Power Grid Co., Ltd., China), and Jiehua Lu (Foshan Power Supply Bureau of Guangdong Power Grid Co., Ltd., China)</i>	

Anomaly Detection and Optimization Strategy of Power Communication Network Service Quality Based on Machine Learning .....	334
<i>Shiliang Wang (State Grid Qinghai Electric Power Company Information and Communication Company, China), Yanxia Ji (State Grid Qinghai Electric Power Company Information and Communication Company, China), Miaomiao Gao (State Grid Qinghai Electric Power Company Information and Communication Company, China), Quanwu Ma (State Grid Qinghai Electric Power Company Information and Communication Company, China), and Jiaping Han (State Grid Qinghai Electric Power Company Information and Communication Company, China)</i>	
Research on the Application to Reduce the Localizer Course Structure Scalping in Signal Simulation .....	338
<i>Yanlong Sun (The Second Research Institute of CAAC, China), Yuankai Li (The Second Research Institute of CAAC, China), Huan Lin (The Second Research Institute of CAAC, China), Jian Xu (The Second Research Institute of CAAC, China), Fei Liang (The Second Research Institute of CAAC, China), and Jiaquan Ye (The Second Research Institute of CAAC, China)</i>	
Research on Elastic Scaling and Deployment Inspection Metrics for Cloud Platform Business Systems in a Microservices Architecture .....	343
<i>Cunyang Cao (State Grid NARI Nanjing Control System Co., Ltd., China), Zhengdong Wu (State Grid NARI Nanjing Control System Co., Ltd., China), Hailin Su (State Grid NARI Nanjing Control System Co., Ltd., China), and Bin Jia (State Grid NARI Nanjing Control System Co., Ltd., China)</i>	
Risk Assessment of Cyberbullying Based on Improved Bayesian Networks .....	349
<i>Qianyu Zhang (Nanjing University of Posts and Telecommunications, China)</i>	
Research on the Evaluation Model of Automatic Real-Time Data Processing for Interpreting Quality Based on Artificial Intelligence .....	356
<i>Xiaohui Liu (Sichuan University, China)</i>	
Design and Implementation of Monitoring System for the Transmission Status of Ocean Observation Data .....	362
<i>Lijuan Cao (Shandong Provincial Key Laboratory of Marine Ecology and Environment &amp; Disaster Prevention and Mitigation, China; North China Sea Data &amp; Information Service of SOA, China), Yan Lei (North China Sea Data &amp; Information Service of SOA, China), and Jinlei Wang (North China Sea Data &amp; Information Service of SOA, China)</i>	
Algorithmic Application and Research on BERT Model in English Topic Categorization .....	367
<i>Tingting Chen (Fujian Chuanzheng Communications College, China)</i>	
Research on the Environmental Perception and Autonomous Navigation System of Intelligent Tennis Court Special Vehicle .....	373
<i>Rui Zheng (Shandong Vocational and Technical University of Engineering, China), Hui Li (Shandong Vocational and Technical University of Engineering, China), and Yuanyuan Lv (Shandong Vocational and Technical University of Engineering, China)</i>	

Traffic Congestion Improvement Based on K-Means Clustering Algorithm and Yolov3 Modeling ..	378
<i>Huifan Zhu (Changsha University of Science &amp; Technology, China), Shuaianan Xie (Changsha University of Science &amp; Technology, China), Lingfeng Gongzhou (Changsha University of Science &amp; Technology, China), and Jinghong Lu (Changsha University of Science &amp; Technology, China)</i>	
FedTK: A Method for Non-IID Fed Learning via Trace-Kernel and Robust Aggregation .....	386
<i>Jing Dong (Heilongjiang University, China), Kunchi Hou (Heilongjiang University, China), Qianqian Xu (Heilongjiang University, China), Kejia Zhang (Heilongjiang University, China; Guizhou University, China), Zhanye Su (Heilongjiang University, China), and Shuoshuo Fang (Heilongjiang University, China)</i>	
FedMCP: A Personalized Federated Learning Based on Kernel Distance between Clients .....	392
<i>Zihan Xia (Heilongjiang University, China), Shuoshuo Fang (Heilongjiang University, China), Yang Liu (Heilongjiang University, China), Ruonan Jia (Heilongjiang University, China), Kejia Zhang (Heilongjiang University, China; Guizhou University, China), and Long Zhang (Heilongjiang University, China; Beijing University of Posts and Telecommunications, China)</i>	
Laser Cutting Path Planning and Experimental Optimization System Based on GAN Generative Adversarial Network .....	398
<i>Xuan Li (Beijing Institute of Technology, China), Jian Song (Beijing Aerospace Magic Dimension Technology Co., Ltd, China), and Lingling Shen (Beijing Institute of Technology, China)</i>	
Intelligent Electric Meter Reliability Assessment Based on Improved SVM .....	404
<i>Shunhui Luo (Fujian Neteng Technology Development Co., Ltd., China; Fuzhou Branch of State Grid Information and Communication Industry Group Co., Ltd., China), Tao Li (Fujian Neteng Technology Development Co., Ltd., China; Fujian Yirong Information Technology Co., Ltd., China), Afeng Tan (Fujian Neteng Technology Development Co., Ltd., China), Biao Chen (Fujian Neteng Technology Development Co., Ltd., China), and Ronggui Li (Fujian Neteng Technology Development Co., Ltd., China)</i>	
NG-TCMS Wireless Network Security Risk Assessment .....	410
<i>Yang Liu (Dalian Jiaotong University, China), Xiangqi Hu (Dalian Jiaotong University, China), and Changxian Li (Dalian Jiaotong University, China)</i>	
Research on Optimization Algorithm for Abnormal Detection of Passenger Transfer Efficiency on Airport Big Data Platform .....	416
<i>Sun Ling (Chongqing Airport Group Co., Ltd., China), Zhou Can (Chongqing Airport Group Co., Ltd., China), Fu Yaoguo (Chongqing Airport Group Co., Ltd., China), Yu Peifeng (Chongqing Airport Group Co., Ltd., China), Qiu Dengyu (Chongqing Airport Group Co., Ltd., China), Wu Nan (Chongqing Airport Group Co., Ltd., China), Ma Chao (Chongqing Airport Group Co., Ltd., China), and Zhao Jingqiu (Chongqing Airport Group Co., Ltd., China)</i>	

Research on the Algorithm of Tourism Destination Recommendation System Based on Big Data Analysis .....	422
<i>Yanjun Shao (Suzhou Industrial Park Institute of Vocational Technology, China) and Nur Lisani (Hasanuddin University, Indonesia)</i>	
Research on the Application of Knowledge-Enhanced Big Model in Intelligence Data Processing of Energy Think Tanks .....	427
<i>Binyu Xie (Energy Development Research Institute of China Southern Power Grid, China), Chun Yang (Energy Development Research Institute of China Southern Power Grid, China), Jiaqi Zhao (Energy Development Research Institute of China Southern Power Grid, China), Yanni Li (Energy Development Research Institute of China Southern Power Grid, China), and Yuda Li (Energy Development Research Institute of China Southern Power Grid, China)</i>	
Bayesian Optimization of XGBoost Model for Machine Failure Prediction and Model Interpretability Analysis .....	433
<i>Yanling Liu (Yunnan University, China) and Yanzhuo Wu (University of Science and Technology Liaoning, China)</i>	
Research on Vibration Characteristics of Cylindrical Roller Bearings Based on Convolutional Neural Networks and C-Attention Network .....	441
<i>Yuxuan Ding (Shenyang Jianzhu University, China), Siqi Niu (Shenyang Jianzhu University, China), Haohua He (Shenyang Jianzhu University, China), Xirui Guo (Shenyang Jianzhu University, China), Zinan Wang (Shenyang Jianzhu University, China), and Jian Ma (Shenyang Jianzhu University, China)</i>	
Design of Distribution Network Project Planning System Based on NSGA-II Algorithm .....	445
<i>Ye Gaoxiang (State Grid Hubei Electric Power Company Limited Economic &amp; Technical Research Institute, China), Xu Jingyou (State Grid Hubei Electric Power Company Limited Economic &amp; Technical Research Institute, China), Cheng Bo (State Grid Hubei Electric Power Company Limited, China), Xia Fangzhou (State Grid Hubei Electric Power Company Limited Economic &amp; Technical Research Institute, China), Tang Jing (State Grid Hubei Electric Power Company Limited Economic &amp; Technical Research Institute, China), and Chen Feng (State Grid Hubei Electric Power Company Limited Economic &amp; Technical Research Institute, China)</i>	
Optimization of Heliostat Field Layout in Solar System Based on Computer Double Population Genetic Algorithm to Improve Signal Processing and Computing Efficiency .....	450
<i>Zekai Lin (Northeastern University, China), Zhuoyuan Li (Northeastern University, China), and Bojun Jiang (Northeastern University, China)</i>	

Design and Research of a Magnetic Ring Device Recognition System Based on Mechanical Vision .....	461
<i>Juexian Mo (Guangdong Academy of Sciences, China), Yu Wang (Southwest Jiaotong University, China), Bingrong Miao (Southwest Jiaotong University, China), Yutang Liu (Guangdong Vocational and Technical College of Mechanical and Electrical Engineering, China), Lisui Lin (Guangdong Vocational and Technical College of Mechanical and Electrical Engineering, China), Xinwen Zhang (Guangdong Vocational and Technical College of Mechanical and Electrical Engineering, China), Jingyan Mai (Guangdong Vocational and Technical College of Mechanical and Electrical Engineering, China), Yong Zhang (Guangdong Vocational and Technical College of Mechanical and Electrical Engineering, China), Minghan Cai (Guangdong Vocational and Technical College of Mechanical and Electrical Engineering, China), Yujie Lai (Guangdong Vocational and Technical College of Mechanical and Electrical Engineering, China), Jing Liu (Guangdong Vocational and Technical College of Mechanical and Electrical Engineering, China), Yucan Chen (Guangdong Vocational and Technical College of Mechanical and Electrical Engineering, China), Xiaoyue Hu (Guangdong Vocational and Technical College of Mechanical and Electrical Engineering, China), Caiyi Zhang (Guangdong Vocational and Technical College of Mechanical and Electrical Engineering, China), and Yuting Zhu (Guangdong Vocational and Technical College of Mechanical and Electrical Engineering, China)</i>	
Lightweight CNN-SVM Based Hybrid Model for Tongue Image Classification .....	466
<i>Xinyue Liu (Shandong University of Traditional Chinese Medicine, China), Shuwei Wang (Shandong University of Traditional Chinese Medicine, China), Haiyue Lv (Shandong University of Traditional Chinese Medicine, China), Yue Yu (Shandong University of Traditional Chinese Medicine, China), and Youquan Wang (Jining Medical University, China)</i>	
Automatic Generation and Optimization of Visual Design Elements Based on Generative Adversarial Networks .....	472
<i>Shuna Wei (Wuhan University of Bioengineering, China) and Zhenjie Xia (Wuhan University of Bioengineering, China)</i>	
Digital Collection and Display System of Agricultural Tourism Resources Based on Drones and Computer Vision .....	479
<i>Dongqin Li (Wuhan Technology and Business University, China; Hubei Business Service Development Research Center, China), Juan Yin (Wuhan Technology and Business University, China; Hubei Business Service Development Research Center, China), and Xiaoling Hu (Wuhan Technology and Business University, China; Hubei Business Service Development Research Center, China)</i>	
YOLOv8-IPAN: Enhancing Ship Detection in Maritime Surveillance with Integrated Pyramid Attention and Progressive Feature Fusion .....	485
<i>Lunchang Liang (Tianjin University of Technology, China) and Tingxuan Han (Tianjin University of Technology, China)</i>	

Target Matching and Identification of Guide Rope in the Track Pulley Groove under Tophat Transformation .....	494
<i>Ma Long (State Grid Jiangsu Electric Power Co., Ltd, China), He Weijie (State Grid Jiangsu Electric Power Co., Ltd, China), Mao Yanfang (State Grid Nantong Power Supply Company, China), Wang Baocang (China Energy Engineering Group Jiangsu Electric Power Construction First Engineering Co., Ltd, China), Xu Xiaoyi (State Grid Nantong Power Supply Company, China), He Rongguo (China Energy Engineering Group Jiangsu Electric Power Construction First Engineering Co., Ltd, China), Yang Kuangyu (State Grid Jiangsu Electric Power Co., Ltd, China), and Wu Wei (State Grid Jiangsu Electric Power Co., Ltd, China)</i>	
Research on Network Security Intrusion Detection System Based on Deep Learning .....	499
<i>Pengliang Li (Chengdu University of Information Technology, China), Bihua Zhuo (Officers College of PAP, China), Ge Li (Chengdu University of Information Technology, China), Miao Peng (Chengdu University of Information Technology, China), and Guangming Duan (Chengdu University of Information Technology, China)</i>	
Design of Distributed Information Security Protection System Based on Blockchain .....	504
<i>Pengliang Li (Chengdu University of Information Technology, China), Bihua Zhuo (Officers College of PAP, China), Ge Li (Chengdu University of Information Technology, China), Guangming Duan (Chengdu University of Information Technology, China), and Miao Peng (Chengdu University of Information Technology, China)</i>	
Research on Agent-Based Personalized Information Retrieval Technology .....	509
<i>Anyi Chen (Wal-Mart Associates Inc. Walmart E-commerce Search Team, USA)</i>	
LDC: A Long-Tail Data Compensation Method for Pest Detection .....	514
<i>Cui Dong (Guangdong University of Science and Technology, China), Fuchao Li (Guangdong University of Science and Technology, China), Xuanjun Lai (Guangdong University of Science and Technology, China), and Liang Yu (Guangdong University of Science and Technology, China)</i>	
Research on Intelligent Decision-Making and Control in Autonomous Driving Based on Deep Reinforcement Learning .....	518
<i>Jiahao Pang (Macau University of Science and Technology, China), Hanyang Guo (Macau University of Science and Technology, China), Xinzhou Rao (Macau University of Science and Technology, China), and Lingfeng Yu (Macau University of Science and Technology, China)</i>	
Research on the Improvement of Openpose Motion Recognition Based on Somatosensory Games .	526
<i>Shaobin Li (Shanghai University of Engineering Science, China) and Jingshi Huang (Shanghai University of Engineering Science, China)</i>	
Research on Large Model Resource Optimization Strategy through Distributed Management .....	535
<i>Jinhai Wang (Shanghai Xiaotu Network Technology Co., LTD, China)</i>	
Research on Personalized Course Recommendation Model for Preschool Education Assisted by Deep Learning Algorithm .....	542
<i>Jun Niu (Changchun Humanities and Sciences College, China) and Yu Wang (Changchun Humanities and Sciences College, China)</i>	

Design of an Environment Detection System for Strawberry Greenhouses Based on the Internet of Things .....	547
<i>Kangwei Guo (Linyi University, China), Jiawei Wang (Linyi University, China), Xueyin Yang (Linyi University, China), and Xiaoyu Deng (Linyi University, China)</i>	
Research on the Integrated System of Data Mining and Machine Learning in Economic Decision Support System .....	552
<i>Qiang Hao (Gansu Keyuan Electric Power Group Co., LTD, China)</i>	
Parameter Identification of Permanent Magnet Synchronous Motor Based on Educational Competition Optimization Algorithm .....	557
<i>Yucheng Sun (Beihua University, China), Pingping Qu (Beihua University, China), Zhenxiong Zhou (Beihua University, China), and Yu Zhou (Beihua University, China)</i>	
Online English Resource Recommendation System Based on Graph Convolutional Network (GCN) Algorithm .....	562
<i>Pengcheng Qiu (Changchun University of Architecture and Civil Engineering, China)</i>	
Bronze Mirror Texture Restoration Based on Deep Convolutional Neural Network .....	567
<i>Chengyuan Qian (Tongji University, China) and Yifei Sun (Shanghai University of Electric Power, China)</i>	
Research on the Semantic Information Extraction Technology Model System in the Informatization of Online Public Opinion .....	573
<i>Yu Tang (Shenyang Open University, China), Wen Bai (Shenyang Open University, China), and Shun Li (Shenyang Open University, China)</i>	
Simulation Calculation and Analysis of Single-Phase Faults in Distribution Networks .....	579
<i>Xuejian Zheng (Beijing Guodiantong Network Technology Co., Ltd., China), Yuan Gao (Beijing Guodiantong Network Technology Co., Ltd., China), Tao Liu (Beijing Guodiantong Network Technology Co., Ltd., China), Qi Pan (Beijing Guodiantong Network Technology Co., Ltd., China), Zhongjian Liu (State Grid Economic Technology Research Institute Co., Ltd., China), Hongyi Li (State Grid Economic Technology Research Institute Co., Ltd., China), Yu Bai (State Grid Economic Technology Research Institute Co., Ltd., China), and Dianchao Zhu (Beijing Guodiantong Network Technology Co., Ltd., China)</i>	
A Secure Federated Load Forecasting Scheme for Power Distribution in Smart Grids .....	584
<i>Yunfan Yang (Power Dispatching and Controlling Center of Guangdong Power Grid Company Limited, China), Zhenwei Gu (Power Dispatching and Controlling Center of Guangdong Power Grid Company Limited, China), Pengcheng Su (Power Dispatching and Controlling Center of Guangdong Power Grid Company Limited, China), and Mingxin Lu (Nanjing University, China)</i>	
A Hybrid Machine Learning and Deep Learning Framework for Effective Electricity Theft Detection in Smart Grids .....	589
<i>Henan Lin (State Grid Benxi Electric Power Supply Company, China), Guanghui Zhang (State Grid Benxi Electric Power Supply Company, China), and Zixiang Sun (State Grid Benxi Electric Power Supply Company, China)</i>	

Research on Energy Efficiency Analysis and Optimization Algorithm of Electric Vehicle Charging Pile .....	596
<i>Jin Cui (Shandong Vocational College of Industry, China)</i>	
Intelligent Generation Design of Brand Logo Based on Generative Adversarial Network (GAN) ....	602
<i>Wenchao Cai (China Academy of Art, China) and Chuan Ma (China Academy of Art, China)</i>	
Chinese Speech Evaluation and Intelligent Training System Based on Dynamic Time Warping .....	608
<i>Rong Zhang (Huaihua Normal College, China) and Xiaomao Li (Huaihua Normal College, China)</i>	
Multi-Model Fusion Based on RoBERTa for Chinese Text Categorization .....	613
<i>Cheng Pan (Shanghai Maritime University, China) and Lin Zhang (Shanghai Maritime University, China)</i>	
Model-Free Altitude Tracking Control for Nonlinear Low-Altitude Aircraft .....	621
<i>Yanru Yin (China University of Petroleum (Beijing) Karamay Campus, China)</i>	
Research on Machine Learning Models for Sensor Fusion of Intelligent Connected Vehicles .....	627
<i>Jin Cui (Shandong Vocational College of Industry, China)</i>	
Research on the Natural Processing Technology of Human Interactive Behavior in VR Environment .....	632
<i>Yuan Zeng (Wanjiang University of Technology, China; Multimedia University, Malaysia), Yi Shi (Wanjiang University of Technology, China), Wong Chee Onn (Multimedia University, Malaysia), and Hew Soon Hin (Multimedia University, Malaysia)</i>	
ADMM-Based Second-Order Optimal Scheduling of Stand-Alone Multi-Microgrids .....	638
<i>Shuncheng Liu (State Grid Hunan Electric Power Co., Ltd. Economic and Technological Research Institute, China), Guangchao Zhang (Beijing SyiTsing Energy Technology Co., Ltd., China), Yujian Pan (State Grid Hunan Electric Power Co., Ltd. Economic and Technological Research Institute, China), Yang Zhan (State Grid Hunan Electric Power Co., Ltd. Economic and Technological Research Institute, China), Yudong Xie (State Grid Hunan Electric Power Co., Ltd. Economic and Technological Research Institute, China), Hui Li (State Grid Hunan Electric Power Co., Ltd. Economic and Technological Research Institute, China), Yuzhuo Wang (Beijing SyiTsing Energy Technology Co., Ltd., China), and Dan Qiao (Beijing SyiTsing Energy Technology Co., Ltd., China)</i>	
Virtual Power Plant Transaction Technology and Mechanism Based on Artificial Intelligence and Blockchain .....	645
<i>Zhicong Huang (State Grid Info-Telecom Great Power Science and Technology Co., Ltd, China), Yuluan Liu (State Grid Info-Telecom Great Power Science and Technology Co., Ltd, China), Chi Wang (State Grid Info-Telecom Great Power Science and Technology Co., Ltd, China), Li Chen (State Grid Fujian Economic Research Institute, China), Hong Chen (State Grid Info-Telecom Great Power Science and Technology Co., Ltd, China), and Guangjie Ni (State Grid Info-Telecom Great Power Science and Technology Co., Ltd, China)</i>	

Research on Integrated Collaborative Optimization of Digital Supply Chain Logistics Information in Smart Port Construction .....	651
<i>Kun Liang (Guangxi Vocational Normal University, China) and Xiaojuan Huang (Guangxi Vocational Normal University, China)</i>	
Research on User Behavior Information System of Tourist Attractions Based on Data Mining .....	656
<i>Wen Bai (Shenyang Open University, China), Chang Liu (Shenyang Open University, China), and Haibin Qiu (Shenyang Open University, China)</i>	
Research on Access Control Model of Electronic Medical Records Based on Blockchain Technology .....	662
<i>Rongguan Liu (Huwangjia (Shanghai) Information Technology Co. Ltd, China; Linyi Yitong Software Co. Ltd, China) and Peijiang Chen (Linyi University, China)</i>	
Research on Electricity Price Anomaly Verification Technology Based on Big Data Analysis .....	666
<i>Xinru Chen (State Grid Shanghai South Power Supply Company, China) and Sa Zhao (State Grid Shanghai South Power Supply Company, China)</i>	
Research on Intelligent Data Processing Model of Electric Power Customer Service Center Based on Decision Tree and Visualization Technology .....	672
<i>Hua Yang (State Grid Call Center, China), Boxiang Xin (State Grid Call Center, China), Xuedong He (State Grid Call Center, China), Xiaoqian Sun (State Grid Call Center, China), and Ruiping Pan (State Grid Call Center, China)</i>	
Research on the Reinforcement Learning Strategy in the Crafts and Arts Design Automation Database System .....	678
<i>Xiaoqin Wang (Dalian University of Finance and Economics, China)</i>	
Research on the Enhanced DistilBERT Model for NLP-Based Text Analysis .....	684
<i>Danqing Wang (Communication University of China, China), Ying Long (Xiamen University Malaysia, Malaysia), and Xiubi Huang (Guangdong University of Technology, China)</i>	
Study on Safety Training and Exam System using Neural Network .....	690
<i>Xingkai Du (State Grid Dandong Electric Power Company - Dandong Dongyuan Power Co., Ltd. of China, China), Lisha Yi (State Grid Dandong Electric Power Company - Dandong Dongyuan Power Co., Ltd. of China, China), Jianchun Xu (State Grid Dandong Electric Power Company - Dandong Dongyuan Power Co., Ltd. of China, China), Hongyun Guo (State Grid Dandong Electric Power Company - Dandong Dongyuan Power Co., Ltd. of China, China), and Zheng Tang (State Grid Dandong Electric Power Company - Dandong Dongyuan Power Co., Ltd. of China, China)</i>	
Cross-Border E-Commerce Consumer Behavior Big Data Analysis and Prediction Model Research	696
<i>Yunyun Xu (Nanning Vocational and Technical University, China), Long Li (Nanning Vocational and Technical University, China), and Jiaqi Liang (Nanning Vocational and Technical University, China)</i>	
Research on the Optimization Model of Computer Deep Learning in the Production of Film and Television Special Effects .....	701
<i>Zhiqing Gu (Fuzhou University of Foreign Languages and Trade, China)</i>	

Design of Deep Learning Framework for Precise Grading of Clear Cell Renal Cell Carcinoma Based on Convolutional Neural Networks .....	707
<i>Xinmu Li (Shandong University, China), Xiaoqing Yang (Shandong Provincial Qianfoshan Hospital, China), Chongxuan Tian (Shandong University, China), Zhengshuai Jiang (Shandong University, China), and Rui Gao (Shandong University, China)</i>	
Research on Algorithm of E-Commerce Recommendation System Based on Deep Learning .....	712
<i>Li Tang (Zhanjiang University of Science and Technology, China), Jie Wu (Zhanjiang University of Science and Technology, China), and Yunyun Zou (Zhanjiang University of Science and Technology, China)</i>	
Research on Intelligent Management System of Sports Venues Based on Internet of Things .....	718
<i>Yongxiang Zhang (Wuchang Shouyi University, China)</i>	
Research on 3D Object Detection in Intelligent Construction Based on Computer Vision .....	723
<i>Bin Duan (CHN Energy Dadu River Jinchuan Hydropower Project Construction Co., Ltd, China), Chao Zuo (Beijing Glory PKPM Technology Co., Ltd, China), Deqiang Feng (CHN Energy Dadu River Jinchuan Hydropower Project Construction Co., Ltd, China), and Jinpeng Liao (Beijing Glory PKPM Technology Co., Ltd, China)</i>	
Research on Multi-Objective Optimal Allocation Model of Manufacturing Resources Based on Nonlinear Algorithm .....	731
<i>Xuan Yang (Shaanxi University of Science and Technology, China)</i>	
Consistent Subspace-Based Multi-View Multi-Label .....	738
<i>Chaolin Xiong (Electric Power Research Institute of Guangdong Power Grid Co., Ltd., China; Guangdong Power Grid Co., Ltd., China), Hualiang Li (Electric Power Research Institute of Guangdong Power Grid Co., Ltd., China; Guangdong Power Grid Co., Ltd., China), Yalong Wang (Electric Power Research Institute of Guangdong Power Grid Co., Ltd., China; Guangdong Power Grid Co., Ltd., China), Ziyue Lin (Electric Power Research Institute of Guangdong Power Grid Co., Ltd., China; Guangdong Power Grid Co., Ltd., China), Wenhan Yang (Electric Power Research Institute of Guangdong Power Grid Co., Ltd., China; Guangdong Power Grid Co., Ltd., China), and Yifan Wang (Electric Power Research Institute of Guangdong Power Grid Co., Ltd., China; Guangdong Power Grid Co., Ltd., China)</i>	
Research on the Measurement Method of Broadband Radiation Noise Based on Nested Cylindrical Array .....	745
<i>Yuqiang Zhang (Dalian Institute of Measurement and Control Technology, China), Zixin Wang (Dalian Institute of Measurement and Control Technology, China), Zhipeng Zhang (Dalian Institute of Measurement and Control Technology, China), and Jun Long (Dalian Institute of Measurement and Control Technology, China)</i>	

A Heterogeneous Resource Scheduling Framework in Container Cloud .....	749
<i>Jianfeng Li (China Mobile Online Services Co., Ltd., China), Zhiya Yi (China Mobile Online Services Co., Ltd., China), Hui Wang (China Mobile Online Services Co., Ltd., China), Guofei Wang (China Mobile Online Services Co., Ltd., China), Guixiang Song (China Mobile Online Services Co., Ltd., China), Dingmiao Yuan (China Mobile Online Services Co., Ltd., China), Huadong Zhong (China Mobile Online Services Co., Ltd., China), and Hairong Sun (China Mobile Online Services Co., Ltd., China)</i>	
Research on Intelligent Recommendation System for Film and Television Content Based on Computer Vision .....	755
<i>Lili Wang (Fuzhou University of Foreign Languages and Trade, China)</i>	
Financial Fraud Detection System Based on Improved Random Forest and Gradient Boosting Machine (GBM) .....	761
<i>Tianzuo Hu (University of California, Davis, USA)</i>	
Utilizing Deep Learning Algorithms for Automatic Recognition of Urban Park Landscape Features .....	766
<i>Yan Huang (Nanning University, China) and Weiqun Lei (Nanning University, China)</i>	
Explore the Intrusion Detection Model Based on Deep Reinforcement Learning from the Perspective of Data Analysis .....	770
<i>Shinai Li (Gansu Agricultural University, China) and Guangyin Hu (Gansu Agricultural University, China)</i>	
Research on Surface Defect Detection through YOLOv8 .....	777
<i>Liwei Tian (Guangdong University of Science and Technology, China), Yu Sun (Guangdong University of Science and Technology, China), Longqing Zhang (Guangdong University of Science and Technology, China), Baoyan Chen (Guangdong University of Science and Technology, China), Xinwei Zhang (Guangdong University of Science and Technology, China), Lei Yang (Guangdong University of Science and Technology, China), and Yungui Chen (Guangdong University of Science and Technology, China)</i>	
Study on Deep Hierarchical Neural Model within the RAG Framework for Multi-Turn Response Generation .....	782
<i>Fei Hu (Chongqing University of Science and Technology, China)</i>	
Phishing Website Detection Model Construction Based on Improved IHHO-RF-SHAP Algorithm .	786
<i>Yiran Liang (Harbin Institute of Technology, Weihai, China) and Jian Chai (Harbin Institute of Technology, Weihai, China)</i>	
TODM: Task-Aware Object Detection Model for Small Remote Sensing Images .....	794
<i>Hongye Wu (Beijing University of Posts and Telecommunications, China) and Dingshu Fan (Beijing University of Posts and Telecommunications, China)</i>	
Industrial Defect Detection Model Based on Multi-Scale Feature Extraction and Fusion .....	801
<i>Shuozheng Wang (Hebei University of Technology, China)</i>	
Hyperspectral Image Classification Based on 3D-2DCNN-ViT-KAN Architecture .....	807
<i>Yanhan Chen (Nanchang University, China), Yinuo Liao (Shenyang Institute of Technology, China), and Zimeng Li (Anhui University, China)</i>	

LSTM and GNN Based Anti-Collision Algorithm for DFSA Labels .....	814
<i>Zhuoqing Zhi (University of Electronic Science and Technology of China, China), Zhiyang Yao (University of Electronic Science and Technology of China, China), and Yuxuan He (University of Electronic Science and Technology of China, China)</i>	
The Parameter Tuning Method of the Fuzzy PID Control Based on an Improved Differential Evolution Algorithm .....	820
<i>Wei Yao (Nanjing University of Aeronautics and Astronautics, China)</i>	
Research on the Application of Machine Learning in Object Detection and Conversation Artificial Intelligence Fields .....	827
<i>Qian Li (National University of Singapore, Singapore)</i>	
Research on Medical Imaging Diagnosis Based on DenseNet and ResNet Model .....	838
<i>Qinxuan Dai (Hunan University of Information Technology, China) and Cui Liu (Hunan University of Information Technology, China)</i>	
A Big Data Conversational Recommender Framework Based on LLMs and HRAG .....	843
<i>Jianfeng Li (China Mobile Online Services Co., Ltd., China), Hui Wang (China Mobile Online Services Co., Ltd., China), Shuaifei Li (China Mobile Online Services Co., Ltd., China), Guofei Wang (China Mobile Online Services Co., Ltd., China), Guixiang Song (China Mobile Online Services Co., Ltd., China), Yimeng Fan (China Mobile Online Services Co., Ltd., China), Yinsen Wang (China Mobile Online Services Co., Ltd., China), Xiaohong Hao (China Mobile Online Services Co., Ltd., China), and Linna Wang (China Mobile Online Services Co., Ltd., China)</i>	
Research on the Ancient Chinese Semantic Database Model Based on Machine Learning .....	848
<i>Liu Qian (Shandong Vocational and Technical University of Engineering, China) and Sun Luyao (Shandong Vocational and Technical University of Engineering, China)</i>	
Research on Pig Weight Prediction Algorithm Based on Machine Vision and Random Forest .....	853
<i>Yanghong Qin (Chongqing Three Gorges Vocational College, China) and Miao Yu (Chongqing Three Gorges Vocational College, China)</i>	
Research on Pig Breed Identification Algorithm Based on Image Segmentation and Pattern Recognition Technology .....	859
<i>Yanghong Qin (Chongqing Three Gorges Vocational College, China) and Miao Yu (Chongqing Three Gorges Vocational College, China)</i>	
Research on Network Data Clustering Algorithms in User Group Partitioning .....	865
<i>Tao Teng (Shandong Technology and Business University, China)</i>	
Research on User Interaction Optimization System of Mobile Energy Storage Equipment Based on Natural Language Processing .....	871
<i>Rongtao Liao (State Grid Hubei Electric Power Co., Ltd., China), Lei Li (State Grid Hubei Electric Power Co., Ltd., China), and Yujie Zhang (State Grid Hubei Electric Power Co., Ltd., China)</i>	
Research on Design Model of Intelligent Scheduling System for Mobile Energy Storage Equipment Based on Deep Learning .....	877
<i>Yuxuan Ye (State Grid Hubei Electric Power Co., Ltd., China), Lei Li (State Grid Hubei Electric Power Co., Ltd., China), and Jian Zhang (State Grid Hubei Electric Power Co., Ltd., China)</i>	

Research on Intelligent Scheduling Algorithm of Mobile Energy Storage Equipment for User-Side Services .....	883
<i>Jian Zhang (State Grid Hubei Electric Power Co., Ltd., China), Hao Ning (State Grid Hubei Electric Power Co., Ltd., China), and Shengwei Wang (State Grid Hubei Electric Power Co., Ltd., China)</i>	
Research on Power System Optimization Control System in Intelligent Dispatching of Mobile Energy Storage Equipment .....	889
<i>Lei Li (State Grid Hubei Electric Power Co., Ltd., China), Hao Ning (State Grid Hubei Electric Power Co., Ltd., China), and Yuxuan Ye (State Grid Hubei Electric Power Co., Ltd., China)</i>	
Research on Intelligent Dispatching System of Mobile Energy Storage Equipment Based on Semantic Analysis .....	895
<i>Lei Li (State Grid Hubei Electric Power Co., Ltd., China), Hao Ning (State Grid Hubei Electric Power Co., Ltd., China), and Jian Zhang (State Grid Hubei Electric Power Co., Ltd., China)</i>	
Research on Power System Simulation Model in Intelligent Dispatching of Mobile Energy Storage Equipment .....	901
<i>Lei Li (State Grid Hubei Electric Power Co., Ltd., China), Xian Luo (State Grid Hubei Electric Power Co., Ltd., China), and Yuxuan Ye (State Grid Hubei Electric Power Co., Ltd., China)</i>	
Research on Condition Monitoring Model of Mobile Energy Storage Equipment Based on Machine Vision .....	907
<i>Lei Li (State Grid Hubei Electric Power Co., Ltd., China), Yixi Wang (State Grid Hubei Electric Power Co., Ltd., China), and Shengwei Wang (State Grid Hubei Electric Power Co., Ltd., China)</i>	
Research on Intelligent Dispatching Optimization Model of Mobile Energy Storage Equipment for User-Side Services .....	912
<i>Hao Ning (State Grid Hubei Electric Power Co., Ltd., China), Lei Li (State Grid Hubei Electric Power Co., Ltd., China), and Yuxuan Ye (State Grid Hubei Electric Power Co., Ltd., China)</i>	
Design of Airborne Self-Aiming Pod System Based on Brushless Motor FOC Control .....	918
<i>Huiying Dai (Guilin University of Electronic Technology, China) and Yifei He (Guilin University of Electronic Technology, China)</i>	
Design of a Predictive Model Based on SMA-Multi-Machine Learning Algorithms .....	926
<i>Huishuang Jia (North China University of Science and Technology, China), Yuntian Du (North China University of Science and Technology, China), Yibo Wang (North China University of Science and Technology, China), Ruihan Li (North China University of Science and Technology, China), Jianing Qiu (North China University of Science and Technology, China), and Hailong Xi (North China University of Science and Technology, China)</i>	
Financial Fraud Detection Based on Computer Big Data Analysis and Artificial Intelligence .....	932
<i>Du Zheng (Huanggang Polytechnic College, China)</i>	
Research on the Construction of Knowledge Graphs for Text-Based English Teaching Mining Based on Deep Learning .....	938
<i>Liping Ge (Beijing Polytechnic, China) and Zhaohui Huang (Beijing Polytechnic, China)</i>	

Research on AI Detection Model for Optimizing Building Energy Consumption Control Based on Reinforcement Learning .....	943
<i>Zongqiang Luo (Gansu Institute of Mechanical and Electrical Engineering, China)</i>	
Research on Key Technology and Application of Big Data Mining in Internet Operation and Maintenance .....	949
<i>Zuning Yang (Information Center of Hainan Daily News Group, China)</i>	
Research on Model of Students' Behavior Pattern Recognition using Big Data and Feature Extraction .....	954
<i>Yanwu Liu (Beijing Polytechnic, China)</i>	
Research on Situational Awareness and Threat Assessment Model using Reinforcement Learning and GNN .....	961
<i>Baotian Li (Beihang University, China; China Automotive Technology &amp; Research Center Co., Ltd., China), Zhaoxia Peng (Beihang University, China), Hang Sun (China Automotive Technology &amp; Research Center Co., Ltd., China), Jingjing Hao (China Automotive Technology &amp; Research Center Co., Ltd., China), Hanbing Wu (China Automotive Technology &amp; Research Center Co., Ltd., China), and Shichun Yang (Beihang University, China)</i>	
Fine-Grained Sentiment Analysis of Movie Reviews Based on Machine Learning and Deep Learning Models .....	967
<i>Shida Yan (University of Southern California, USA) and Shaochen Cui (University of Southern California, USA)</i>	
Research on Data Outbound Risk Assessment Algorithm for the Automobile Industry Based on Deep Learning .....	973
<i>Wang Yi (China Automotive Technology &amp; Research Center Co., Ltd., China), Zhao Jia (China Automotive Technology &amp; Research Center Co., Ltd., China), and Zhang Fan (China Automotive Technology &amp; Research Center Co., Ltd., China; China Auto Information Technology (Tianjin) Co., Ltd., China)</i>	
Application of Face Recognition Algorithm Based on Deep Learning in Artificial Intelligence Security System .....	978
<i>Richard Ma (Lenovo (Beijing) Co., Ltd., China)</i>	
Spatio-Temporal Evolution Analysis of AIGC Public Sentiment Based on Bi-LSTM-Attention Algorithm .....	984
<i>Xue Jiarui (Xi'an Jiaotong University, China)</i>	
Research on Intelligent Dispatching Algorithm of Mobile Energy Storage Equipment Based on Deep Learning .....	995
<i>Zhaofeng Guo (State Grid Hubei Electric Power Co., Ltd., China), Xian Luo (State Grid Hubei Electric Power Co., Ltd., China), and Rongtao Liao (State Grid Hubei Electric Power Co., Ltd., China)</i>	
Research on Data Fusion Optimization Model of Mobile Energy Storage Equipment for User-Side Services .....	1002
<i>Rongtao Liao (State Grid Hubei Electric Power Co., Ltd., China), Zhaofeng Guo (State Grid Hubei Electric Power Co., Ltd., China), and Xian Luo (State Grid Hubei Electric Power Co., Ltd., China)</i>	

Research on User Demand Prediction Model of Mobile Energy Storage Equipment Based on Semantic Analysis .....	1009
<i>Xian Luo (State Grid Hubei Electric Power Co., Ltd., China), Ronghao Yang (State Grid Hubei Electric Power Co., Ltd., China), and Chen Yang (State Grid Hubei Electric Power Co., Ltd., China)</i>	
Research on Health Status of Mobile Energy Storage Equipment Based on Random Forest and Long Term Memory Network Algorithm .....	1015
<i>Weijing Yao (State Grid Hubei Electric Power Co., Ltd., China), Chen Yang (State Grid Hubei Electric Power Co., Ltd., China), and Bingyao Hu (State Grid Hubei Electric Power Co., Ltd., China)</i>	
Research on Optimization Algorithm Design Model of Mobile Energy Storage Equipment for User-Side Services .....	1020
<i>Ronghao Yang (State Grid Hubei Electric Power Co., Ltd., China), Xiangyu Yuan (State Grid Hubei Electric Power Co., Ltd., China), and Weijing Yao (State Grid Hubei Electric Power Co., Ltd., China)</i>	
Research on Big Data Database System in Intelligent Dispatching of Mobile Energy Storage Equipment .....	1025
<i>Bingyao Hu (State Grid Hubei Electric Power Co., Ltd., China), Botao Wang (State Grid Hubei Electric Power Co., Ltd., China), and Ronghao Yang (State Grid Hubei Electric Power Co., Ltd., China)</i>	
Optimization Algorithm of Industrial Multi-Objective Centralized Maintenance for Power Grid Stability .....	1031
<i>Chenhan Zhang (State Grid Fujian Marketing Service Center, Metering Center and Integrated Capital Center, China), Zhixin Lin (State Grid Fujian Marketing Service Center, Metering Center and Integrated Capital Center, China), Zhijun Jiang (State Grid Fujian Marketing Service Center, Metering Center and Integrated Capital Center, China), Yuqing Cai (State Grid Fujian Marketing Service Center, Metering Center and Integrated Capital Center, China), Xuan Deng (State Grid Fujian Marketing Service Center, Metering Center and Integrated Capital Center, China), and Yihao Zhou (State Grid Fujian Marketing Service Center, Metering Center and Integrated Capital Center, China)</i>	
Optimization and Application of Cloud-Based Deep Learning Architecture for Multi-Source Data Prediction .....	1038
<i>Yang Zhang (Boston University, USA), Fa Wang (Meta Platforms, Inc, USA), Xin Huang (University of Virginia, USA), Xintao Li (Georgia Institute of Technology, USA), Sibe Liu (University of Miami, USA), and Hansong Zhang (University of California San Diego, USA)</i>	
Design of the English Personalized Learning Path Recommendation Algorithm Based on MABPSO ....	1043
<i>You Chen (Guangdong University of Science and Technology, China) and Agiimaa Tserenchimed (Graduate University of Mongolia, Mongolia)</i>	
Smart Grid Stability Prediction Based on Deep Learning Models on the Spark Platform .....	1050
<i>Min Yang (TaiShan University, China), Jia Chen (Shanghai University of Finance and Economics, China), and Yujia Gao (Yuncheng University, China)</i>	

Research on Data Processing System Model for the Effect of Low Temperature on Electric Vehicle Battery Performance .....	1058
<i>Yuchen Ma (China Auto Information Technology (Tianjin) Co., Ltd., China), Jinhong Cui (China Auto Information Technology (Tianjin) Co., Ltd., China), Lu Wang (Heilongjiang Transportation Investment Intelligent Connected Vehicle Industry Innovation Co., Ltd., China), Jiachen Yang (China Auto Information Technology (Tianjin) Co., Ltd., China), and Shuangshuang Liu (China Auto Information Technology (Tianjin) Co., Ltd., China)</i>	
CMA-YOLO11: An Advanced Algorithm for High-Precision Steel Surface Defect Detection .....	1064
<i>Hanyuan Lin (South China Agricultural University, China) and Zejia Fang (South China Agricultural University, China)</i>	
Research on the Algorithm for Constructing Real-Life 3D Models of Transmission Lines Based on Satellite Stereo Imaging .....	1074
<i>Hansong Cui (Beijing Hualian Electric Power Engineering Consulting Co., Ltd., State Grid Jibei Electric Power Co., Ltd. Engineering Company, China), Xiaobin Zheng (Beijing Hualian Electric Power Engineering Consulting Co., Ltd., State Grid Jibei Electric Power Co., Ltd. Engineering Company, China), Chunming Duan (Beijing Hualian Electric Power Engineering Consulting Co., Ltd., State Grid Jibei Electric Power Co., Ltd. Engineering Company, China), Tingyu Lai (Beijing Hualian Electric Power Engineering Consulting Co., Ltd., State Grid Jibei Electric Power Co., Ltd. Engineering Company, China), and Haokun Wang (Beijing Hualian Electric Power Engineering Consulting Co., Ltd., State Grid Jibei Electric Power Co., Ltd. Engineering Company, China)</i>	
Research on Optimization Model of Machine Learning in Informationized Operation and Maintenance of Power System .....	1079
<i>Jun Wang (NARI Technology Co., Ltd., China) and Wei Zhang (NARI Technology Co., Ltd., China)</i>	
Research on Multi-Source Data Fusion Optimization Dispatch Model for Smart Grid .....	1084
<i>Jun Wang (NARI Technology Co., Ltd., China) and Wei Zhang (NARI Technology Co., Ltd., China)</i>	
Short-Term Net Load Forecasting for Urban Distributed Photovoltaics using SGMD and SE-Attention .....	1089
<i>Dan Li (State Grid Customer Service Center, China), Xiubin Huang (State Grid Customer Service Center, China), Jing Yang (State Grid Customer Service Center, China), Chuang Zhang (State Grid Customer Service Center, China), Chenghuan Li (State Grid Customer Service Center, China), and Ruipeng Jia (State Grid Customer Service Center, China)</i>	
Regional Daily Electricity Consumption Forecasting with Meta-Learning and Attention Mechanism .....	1096
<i>Zhiwei Wang (State Grid Customer Service Center, China), Jing Yang (State Grid Customer Service Center, China), Dan Li (State Grid Customer Service Center, China), Chuang Zhang (State Grid Customer Service Center, China), and Ruipeng Jia (State Grid Customer Service Center, China)</i>	

Low-Altitude Flight Dynamic Surveillance System Based on 4G/5G .....	1102
<i>Guangwei Liu (Lanzhou Aviation Technology College, China), Mao Rong (Lanzhou Aviation Technology College, China), Baixue Qi (Lanzhou Aviation Technology College, China), and Xiulan Chen (Gansu Open University, China)</i>	
A Multi-Level Intelligent Control and Deep Learning-Based Personalized Game Content Recommendation: Signal Processing and Sensor Data Fusion in Distributed Intelligent Systems Framework .....	1108
<i>Jiaying Zhao (Tufts University, USA)</i>	
Research on Intelligent Processing Model under Semantic Analysis of Photoelectric Imaging Technology .....	1113
<i>Jing Lu (Taishan University, China), Chuantao Ma (Taishan University, China), and Chao Zhang (Taishan University, China)</i>	
Research on Deep Learning Architecture Design System in Optoelectronic Information Processing .....	1119
<i>Jing Lu (Taishan University, China), Chuantao Ma (Taishan University, China), and Chao Zhang (Taishan University, China)</i>	
Research on the Construction of Intelligent Fault Prediction and Diagnosis Model for RPN Intermediate Range ACCG4 Board under Multi-Base Collaboration .....	1125
<i>Renjie Li (China Energy Digital Technology Group Co., LTD, China), Kunming Jiang (CGN Digital Technology Co., Ltd CGNPC, China), Wenbin Ren (Shenzhen Nanhai Nuclear Power Technology Co., Ltd, China), Miao Ye (Shenzhen Chryo Technology Co., LTD, China), and Yu Wang (CGN Digital Technology Co., Ltd CGNPC, China)</i>	
Research on the Construction of Diagnosis Knowledge Base of Multi-Base RPN Intermediate Range ACCG4 Board Based on Expert System .....	1130
<i>Kunming Jiang (CGN Digital Technology Co., Ltd. CGNPC, China), Jing Liu (CGN Digital Technology Co., Ltd. CGNPC, China), Jiaju Qian (CGN Digital Technology Co., Ltd. CGNPC, China), Yu Wang (CGN Digital Technology Co., Ltd. CGNPC, China), and Xincui Chang (CGN Digital Technology Co., Ltd. CGNPC, China)</i>	
MA2-Net: Multi-Scale Adaptive Attention-Enhanced Network for Brain Tumor Detection .....	1137
<i>Tianyu Ren (Henan University, China)</i>	
Enhanced 5G Coverage for High-Speed Railways: An Intelligent 1+N Multi-Operator Edge Computing Architecture .....	1144
<i>Weihui Zhang (China Academy of Railway Sciences, China) and Fuzhang Wang (China Academy of Railway Sciences, China)</i>	
Safety Analysis and Evaluation of Intelligent Ship Autonomous Navigation System Based on Smart Obstacle Avoidance Algorithm .....	1148
<i>Shufei Qi (Binzhou Polytechnic, China) and Yonggang Zong (Binzhou Polytechnic, China)</i>	
Design and Implementation of Inventory System Based on Django and Internet of Things .....	1154
<i>Qian Zhang (Wuhan Qingchuan University, China)</i>	
Event Causality Identification Based on ConceptNet and Graph Network .....	1159
<i>Zijia Liang (Southwest Jiaotong University, China)</i>	
Prediction of Knee Angle by EMG Regression Based on BP Neural Network .....	1164
<i>Sichen Shen (Central South University, China)</i>	

Fusion of Artificial Intelligence in Temperature Sensor Network Optimization .....	1168
<i>Nan Yin (713 Research Institute of China State Shipbuilding Corporation Limited, China; Zhengzhou Key Laboratory of Fire Protection Technology in Special Places, China), Chen Yang (713 Research Institute of China State Shipbuilding Corporation Limited, China; Zhengzhou Key Laboratory of Fire Protection Technology in Special Places, China), and Huixiang Zhang (713 Research Institute of China State Shipbuilding Corporation Limited, China; Zhengzhou Key Laboratory of Fire Protection Technology in Special Places, China)</i>	
Grid Adaptive Dispatch System Based on Multi-Dimensional Fault Prediction and Dynamic Resource Synergy .....	1173
<i>Li Huan (Electric Power Research Institute of State Grid Liaoning Electric Power, China), Li Wanzhen (State Grid Information and Telecommunication Group Co., Ltd., China), Jiang Jing (State Grid Economic and Technological Institute, China), Fang Shuang (State Grid Information and Telecommunication Group Co., Ltd., China), Zhao Guofeng (State Grid Information and Telecommunication Group Co., Ltd., China), Fu Haixuan (State Grid Information and Telecommunication Group Co., Ltd., China), and Meng Sa Chula (China Electric Power Research Institute, China)</i>	
Research on Multi-Source Data Fusion Analysis Model Based on Deep Learning .....	1178
<i>Zeyu Yang (University of Sydney-Business School, Australia)</i>	
XML Keyword Search Based on LLM .....	1184
<i>Ying Lou (Zhejiang International Studies University, China), Xianmei Wan (Zhejiang International Studies University, China), Wenqi Guo (Air Force Early Warning Academy, China), and Feng Zhong (Zhejiang International Studies University, China)</i>	
Data-Driven Prediction Based on Gradient Boosted Regression Trees in a Machine Learning Framework .....	1188
<i>Jiayi Ma (Fujian Jiangxia University, China), Yunyi Chen (Fujian Jiangxia University, China), and Xiang Lin (Fujian Jiangxia University, China)</i>	
Research on Industrial Robot Motion Planning Algorithm Based on Deep Learning .....	1192
<i>Shiran Xiao (North China University of Technology, China) and Huaifu Liu (North China University of Technology, China)</i>	
Research on a New Wheel Chassis Lifting and Handling Mechanism Based on Adaptive Control .	1197
<i>Shen Li (Wenhua College, China) and Zelong Zhou (Army Engineering University, China)</i>	
Detection and Early Warning of Damaged Vehicles and Vehicles on Fire Based on Improved YOLOv8 .....	1201
<i>Lu Qiu (Jimei University, China) and Xiangbin Zhang (North University of China, China)</i>	
FM-YOLO: A Ship Detection Algorithm Based on Feature Fusion and Multi-Scale Attention .....	1207
<i>Haoyu Feng (Shanghai Maritime University, China) and Binbin Xu (Shanghai Maritime University, China)</i>	
Research on Remote Sensing Small Object Detection Based on Improved YOLOv8 .....	1212
<i>Shimin Weng (Northeastern University at Qinhuangdao, China) and Maohua Jing (Northeastern University at Qinhuangdao, China)</i>	

ECA-Based Dynamic Data Enhancement Model for Facial Expression Recognition .....	1221
<i>Hongyan Hou (Shandong University of Traditional Chinese Medicine, China) and Ning Dong (Hunan University of Chinese Medicine, China)</i>	
YOLOv8-BFDS: A Framework for Underwater Object Detection Based on Feature Enhancement and Fusion .....	1228
<i>Jiatong Li (Ocean University of China, China)</i>	
A Class-Weighted Optimization Method Based on Convolutional Neural Network and Data Augmentation with Application to Imbalanced Image Recognition .....	1233
<i>Jiajia Chen (Jilin University of Finance and Economics, China)</i>	
Research on Anomaly Detection Data Mining Algorithm Based on Reinforcement Learning .....	1239
<i>Zeyu Yang (University of Sydney-Business School, Australia)</i>	
Lightweight Pothole Detection Algorithm for Intelligent Chassis Control .....	1245
<i>Zhang Hao (Chongqing Jiaotong University, China)</i>	
Research on Data-Driven Intelligent Decision-Making Model System in Communication Engineering .....	1250
<i>Haoxu Miao (Shandong University of Science and Technology, China)</i>	
Study on Material Loading and Unloading System Simulation Platform of Nuclear Power Plant Based on PLC .....	1256
<i>Boxiang Jia (CGN Digital Technology Co., Ltd. CGNPC, China), Jianhui Long (China Nuclear Power Operations Co., Ltd., China), Kunming Jiang (CGN Digital Technology Co., Ltd. CGNPC, China), Xiaolei Zhao (CGN Digital Technology Co., Ltd. CGNPC, China), and Xincai Chang (CGN Digital Technology Co., Ltd. CGNPC, China)</i>	
Research on Minimization Simulation Platform of Nuclear Power Plant Refueling Machine .....	1260
<i>Xiaolei Zhao (CGN Digital Technology Co., Ltd. CGNPC, China), Haiyan He (CGNPC Uranium Resources Co., Ltd., China), Kunming Jiang (CGN Digital Technology Co., Ltd. CGNPC, China), Boxiang Jia (CGN Digital Technology Co., Ltd. CGNPC, China), and Xincai Chang (CGN Digital Technology Co., Ltd. CGNPC, China)</i>	
Research on Deep Learning Feature Extraction Algorithm for Big Data Analysis .....	1265
<i>Yong Wang (Wuhan Technology and Business University, China) and Ting Zhang (Wuhan Technology and Business University, China)</i>	
Research on Multimodal Data Fusion Model Based on Artificial Intelligence Large Model .....	1270
<i>Yong Wang (Wuhan Technology and Business University, China) and Ting Zhang (Wuhan Technology and Business University, China)</i>	
Research on Machine Learning Energy Consumption Optimization Model in Wireless Sensor Networks .....	1276
<i>Yong Wang (Wuhan Technology and Business University, China) and Ting Zhang (Wuhan Technology and Business University, China)</i>	
Research on UAV Target Tracking Rule Planning Based on Lyapunov Vector .....	1283
<i>Xinjian Li (Xiamen University Tan Kah Kee College, China), Yuxiang Lin (Xiamen University Tan Kah Kee College, China), Lei Wang (Xiamen University Tan Kah Kee College, China), Ke Hu (Xiamen University Tan Kah Kee College, China), Mengling Deng (Xiamen University Tan Kah Kee College, China), and Hanxu Li (Xiamen University Tan Kah Kee College, China)</i>	

Research on Gold Price Prediction Based on VMD-SVM .....	1289
<i>Ying Yue (China University of Geosciences (Wuhan), China)</i>	
Application of Intelligent Algorithm in Enterprise Competitive Strategy Analysis and Prediction .....	1294
<i>Chengcheng Liu (Xi'an University of Finance and Economics, China)</i>	
Design of Vehicular Bidirectional Antenna Based on Vehicle to Vehicle Communication of Train .....	1302
<i>Junan Zhang (Dalian Jiaotong University, China) and Changxian Li (Dalian Jiaotong University, China)</i>	
Modeling and Optimization of Multimodal Image Classification Based on ResNeXt and BERT ....	1308
<i>Yifan Song (Beijing University of Posts and Telecommunications, China)</i>	
Research on the Application of Genetic Algorithm in Improving the Torque Density of Permanent Magnet Synchronous Motor .....	1314
<i>Peng Wang (China North Vehicle Research Institute, China), Guanghui Wang (China North Vehicle Research Institute, China), and Bin Liu (China North Vehicle Research Institute, China)</i>	
Deep Learning-Based Fault Prediction Model for Electrical Equipment .....	1320
<i>Zhang Yang (Three Gorges Navigation Administration, China), Li Yunyang (Yangtze River Three Gorges Navigation Administration, China), and Wang Lixiang (Three Gorges Navigation Administration, China)</i>	

## Author Index