

2024 IEEE 2nd International Conference on Sensors, Electronics and Computer Engineering (ICSECE 2024)

**Jinzhou, China
29-31 August 2024**

Pages 1-623



**IEEE Catalog Number: CFP24EZ9-POD
ISBN: 979-8-3503-7365-3**

**Copyright © 2024 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:	CFP24EZ9-POD
ISBN (Print-On-Demand):	979-8-3503-7365-3
ISBN (Online):	979-8-3503-7364-6

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

Table of Contents

PID	Paper Information	Page
S001	Unsupervised underwater image enhancement method based on data-driven and atmospheric light optimization Jian Chang, Zijian Wang, Haibo Jin	1
S002	Traffic Anomaly Detection Model Integrating Conditional Generative Adversarial Network and WaveNet Siwen Yang, Hong Chen	7
S004	A method combining Kalman's algorithm and the YOLOv7 for estimating the motion of carotid plaques in B-Mode ultrasound image sequences Xu Jiale, Zhang Qinghui, Li Junqiu, Rong Jian, Qiang Zhenping	13
S005	Superimposed attention enables TransUNet for medical image segmentation Liang Zhao, Yuqi Zhao, Chentian Jiao	19
S006	Crane Rail Bolt Image Defect Recognition Based on Feature Fusion Fengmin Shen, Qian Zhou, Zhijia Bai, Hui Zhang	24
S007	DPKD:A USV Target Search Algorithm Combine with DDPG and Prior Knowledge Data Wei Wang, Chao Kong, Huabin Diao	30
S008	A Efficient Multi-label Cherry Classification Approach Based on Convolution Neural Network Xianchuan Tang, Chao Kong, Gongwen Li	37
S012	Road crack detection algorithm based on improved YOLOV5 model Guangda Liang, Wenwen Liu, Weiwei Li	43
S013	Research on Lean and Accurate Method for High Throughput Satellite Payload Modules' Assembly Process Yan Rong, Tu Bingyi, Huang Wei, Lei Yu, Qu Xiting, Li Cheng	48
S015	Multi-task scheduling method for information security of heterogeneous big data networks based on artificial intelligence technology Yiping Chen, Yingzi Zheng	53
S016	Lightweight 1-D Convolutional Neural Network Model for Predicting Snoring Duration Yohan Abhishek	59
S018	Design and Development of a Low Cost Coastal Environment Monitoring System Jian Li, Aref Shiran, Yonghe Liu, Michelle Hummel	65
S025	Advancing Blockchain Scalability: An Introduction to Layer 1 and Layer 2 Solutions Han Song, Zhongche Qu, Yihao Wei	71
S026	Stable Tracking of Low Signal-to-noise Ratio Targets Using a Costas Loop Combining FLL+PLL Jin Xu, Yueying Guan, Hai Wang, Yufan Wang, Hailang Feng, Yifeng He	77

S027	Enhancing web UX test coverage through model-based practices: State machine driven test auto-generation Damodaran Chingleput Sathyakumar	82
S029	Transferring the Knowledge of Vision-Language Model for Pathological Image Classification Ying Zeng, Jialong Zhu	94
S030	Research on Digital Training System of University Sports Based on SIFT Algorithm Jun Jin	99
S034	Research on Control of Quadrotor UAV Based on Improved BP Neural Network PID and ADRC Pengfei Liu, Haiming Tian, Huiting Wang	104
S035	Risk prediction method of multi-source network information cross-space fusion based on reinforcement learning Yiping Chen, Yingzi Zheng	113
S036	Application of Satellite Remote Sensing and GIS Technology in Natural Disaster Risk Assessment Juan Wang, Tianyi Chen, Yifeng He	119
S037	Reliability Analysis of Wind Turbine Main Shaft Bearings Based on Active Learning Kriging Algorithm Yujun Cui, Ziwen Wu	126
S038	Pedestrian Indoor Positioning Algorithm Suitable for Unknown Environments Xueting Zhang, Lingke Zhou, Sheng Li	132
S039	Application of TTSSA-CNN algorithm in fault diagnosis of pumping unit Longda Bing, Bao Liu, Wei Miao, Fengran Wang	138
S040	Efficient Steganography GAN Model with Residual Structures and GCSA Attention Yuhang Xie, Jianmin Li, Yan Li	145
S041	Tilt-rotating Calibration Method for MEMS Gyroscope Based on ALGRO algorithm Zuo Lipeng, Huangfu Bingbin, Yang Liu, Shen Shaofeng	151
S042	The Deep Integration of Knowledge Graphs and Large Language Models: Advancements, Challenges, and Future Directions Daifeng Li, Fan Xu	157
S043	A Quality Evaluation Method for Images in Adverse Weather Conditions Zhengxi Shao, Jifeng Chen, Wenxin Lin	163
S044	Research on Cryptographic Service Request Scheduling Scheme Based on Improved Dragonfly Algorithm in Cloud Environment Jin Chen, Guozhen Shi, Guang Yang	170
S045	Semi-Structured Tender Document Retrieval-Augmented Generation: A Framework Based on Large Language Model Yilong Zhao, Daifeng Li	177
S046	A fault diagnosis method based on TCN-LSTM-SE neural networks for distributed PV systems Wang Zhao, Wang Chao, Ke Qiwen, Zhang Baoqun, Wang Yaqun, Zeng Shuang, Kang Taifeng, Lan Tian, Liu Zihao, Liu Congwei	183

S047	LightJD: A Lightweight JavaScript Drive-by Download Detection Framework Tingting Wang, Jing Hou, Yuxiang He, Jiaxuan Han	190
S048	Dynamic Tracking Optimization of Basketball Trajectory Based on Graph Neural Network Liu Liang	197
S049	Communication Satellite Signal Quality Prediction and Control Model Using Bayesian Optimization Algorithm Bing Duan, Yuteng Liu, Yifeng He	202
S050	Research on Facial Expression Recognition Based on YOLOv9 Xiubin Zhang	208
S052	Research on Children's Interactive Books Based on Image Processing Technology Xi Wei, Jing Li	214
S053	Adaptive Recognition of Sports Image Features Based on Kalman Filtering Algorithm Liu Liang	219
S054	Integrated Sensing and Communication - The ISAC Technology Hankun Ma	225
S055	Mitigating Gender Bias in Accent Recognition through Gender-Specific Models: An Analysis of Performance and Fairness Ziyue Qiu	230
S056	Dynamic Channel Capacity of an M-cell SWF/tx-ITL Network: A Multi-Variable Analysis Xiaoyuan Zhao	235
S057	A Federated Learning Algorithm Based on Combination of Prototype and Comparative Learning Yanwei Chen, Wenbo Huang	242
S058	Application Research on Detection of Edge Characteristics of Tea Garden Disease Based on UAV Inspection Xiubin Zhang, Hang Chen, Yongjian Huang	248
S063	Sensor Data-Driven Intelligent Health Monitoring and Early Warning System Qiankun Zhao	254
S064	Research on Remote Sensing Monitoring Technology for Land Desertification Based on YOLOv9 Xinran Wang	261
S065	Analysis of Subway Power Supply Compensation System Based on Neural Network Control Muruo Du, Mingxing Tian	268
S067	Research on big data processing technology based on machine and deep learning and system framework construction Ran Fang	274
S069	Research on the Optimization of Wind-Solar Energy Storage Systems in Park Microgrids Based on Mixed Integer Linear Programming and Monte Carlo Simulation Dongbin Wen, Fan Zhang, Chengyue Li, Peizhi Sheng	281

S071	Nutritional Analysis and Optimization of College Students' Dietary Recipes Based on Entropy Weight TOPSIS Method and Simulated Annealing Algorithm Mingfei Rong	286
S072	Research on Molecular Property Prediction Model Base on Random Forest and LSTM Network Mouyi Zhang	291
S074	Design and Research of PDC Bit Temperature Control System Lihong Wei, Jaime Honra	295
S075	Design of parameter transfer method in application flow test of smart energy meter security chip Xian Ding, Peiyong Zhang, Fan Jiang, Jing Xu, Tao Sun, Xuesong Bai, Zhaoqing Liang, Yuesong Nan	300
S076	Simulation and Evaluation of Carbon Emission Reduction Path of Power Grid System Based on GENeSYS-MOD Model Ying Zhangchi, Xu Xiaoke, Chai Lin	304
S077	Computational advertising recommendation system based on graph neural network Rongrong Zhang	309
S079	Design and Calibration of the Wide-Band Three-Component Air-Core Coil Sensor for Shallow Target Detection Wei Liu, Minghui Bao, Xinxi Yu, Yong Li	316
S081	Research and application of online testing technology for feeder automation Yinliang Liu, Huimin Chen, Lvzerui Yuan, Yuzhang She, Huanqiang Zhang, Xinhao Lin, Shuyin Duan, Lei Yu	320
S082	Effect of Poly-TPD: P3HT blend on OFETs performance and NO ₂ gas-responsiveness Xueyan Li, Shiguang Li, Zhijie Li	326
S085	Simulation of AGV Airport Path Planning Based on Improved Breadth-First Search Algorithm Zhao Shiwei, Zhou Yangyang, Huang Feilong	330
S087	A human pose and attention mechanism method for behavior recognition and its application Jiang Jun, Li Tian	335
S090	Deep Learning for Lung Disease Classification Using Transfer Learning and a Customized CNN Architecture with Attention Xiaoyi Liu, Zhou Yu, Lianghao Tan	341
S091	Design and Implementation of Office Equipment Protection Software for Power System Based on Trusted Computing Haijing Zhang, Bin Zhou, Shengbo Qu, Han Dong	347
S092	Deep Learning in Biometric Recognition: Applications and Challenges Zhengshuai Jiang, Haoyang Li, Xinyi Sui, Yutian Cai, Guoxin Yu, Wei Zhang	352
S093	Ensemble BERT: A Student Social Network Text Sentiment Classification Model Based on Ensemble Learning and BERT Architecture Kai Jiang, Honghao Yang, Yuexiang Wang, Qianru Chen, Yiming Luo	359

S094	A Multimodal Fusion Network for Student Emotion Recognition Based on Transformer and Tensor Product Ao Xiang, Zongqing Qi, Han Wang, Qin Yang, Danqing Ma	363
S095	Progressive Adaptive Feature Network for Radar Image Denoising Method Using Multiple Attention Zhengyan Tang, Ce Li, Zheng Chen	367
S096	Latent Graph Neural Networks for Human Skeleton-based Action Recognition Xianlong Wei, Ce Li, Kaipan Zhao, Zhongbo Jiang	371
S097	AF-NET: Urban Road Vehicle Ground Penetrating Radar Image Denoising via Attention U-Net Yingjie Huang, Ce Li, Quanzhi Li	375
S098	Gaussian Sliding Window Smoothing for Human Action Segmentation Yihan Tian, Ce Li, Xuli Guo, Zhongbo Jiang	379
S099	Transformer-Based Classification Outcome Prediction for Multimodal Stroke Treatment Danqing Ma, Meng Wang, Ao Xiang, Zongqing Qi, Qin Yang	383
S101	Measures to Shorten the Outage Time of Substation Comprehensive Maintenance Jinwei Hao, Jiaying Wang, Zhitong Liu, Xiang Yu, Hua Zhang, Chenghao Lan	387
S102	Measures to Shorten the Duration of Power Outages for Distribution Network Users Pan Li, Bo Zhu, Diancai Shi, Xiaolei Yang, Tianhe Liu, Yijing Gui	391
S103	Measures to Shorten the Resonant Adjustment Time of Voltage Transformer Test Circuit Jiahui Zhu, Yi Wang, Ling Guan, Huiyan Cao, Jialin Li, Xinyu Yang	396
S105	A New Method of Automatic Issuance of Electricity Bills Intelligent Accounting Zihang Meng, Lu Han, Qiang Zhao, Shuyi Tao, Huiyan Cao, Boyu Shi	400
S107	The Working Principle and Operation & Maintenance of Transformer Oil Chromatography Online Monitoring Device Yibing Sui, Ruitong Liu, Hongcheng Wang, Jiqi Wu, Yicheng Zhao, Hongqiao Xing	404
S108	The Design of an Electric Power Field Tool Management System Based on RFID and Neural Network Algorithms Guang Ji, Yuhan Wu, Yichen Fan, Han Feng, Dian Zhang, Hengxing Zhao	409
S110	A Measure for Shortening Partial Discharge Test Time of Transformer Jing Liu, Yutao Liu, Zijian Gu, Yilin Li, Haotian Xia, Yue Wang	417
S111	Analysis of the Current Situation of Power Cable Faults and Countermeasures Yutao Liu, Zhiyao Zhang, Chunsu Ji, Jing Liu, Yue Wang, Haotian Xia	422
S113	Analysis and Improvement Measures of Oil Leakage in Current Transformers Yan Li, Xianqi Li, Shuxin Liu, Zehao Wang, Tianhong Wu, Chen Li	427
S114	Study of the technology of on-line monitoring for transmission lines arresters by measurement of lightning current and leakage current Fei Li, Kai Li, Bowen Du, Bingshi Jiang, Weiyao Li	432
S115	Capacity of microgrid energy storage systems based on quantitative lifetime modeling optimization study Bingshi Jiang, Weiyao Li, Shuo Shang, Mei Jia, Yuanning Xu, Guanlie Pei	437

S116	The reasons for common charging pile jump guns and rectification measures Fan Yajun, Guo Chongpeng, Zhao Wenjing, Du Ke, Li Jin, Chong Lin	441
S118	Reasons for the duration of defect handling in the LW9-72.5 type SF6 circuit breaker and corrective measures Shan Boyuan, Zhao Wenjing, Fan Yajun, Zhang Le, Zhao Wenbing, Chong Lin	445
S120	66kV Lightning Wire Lifting Device Based on Intelligent Feedback System Lei Shi, Nan Zhao, Guanru Fu, Siyu Liu, Qiuyu Zhang, Chu Wang	449
S121	Analysis on the causes and countermeasures of abnormal additional equipment of power distribution lines in Xihe area Nan Liu, Yuanyuan Liu, Xueyan Guo, Hang Liu, Ning Kan, Hui Sheng	453
S125	The Development of a Speech Recognition and Semantic Understanding System for Marketing Customer Service Shuyi Tao, Lu Han, Huiyan Cao, Jiaying Wang, Jialin Li, Yuenan Wang	457
S126	Measures to Shorten the Operation Time of Replacing the First Insulator Xinyu Yang, Chenghao Lan, Xiang Yu, Chuanzong Zhao, Tianhe Liu, Yuxiang Ai	464
S131	Optimization and Implementation of Network Security Incident Handling Process Based on Secure Arrangement Ni Lin, Qian Yang, Zhang Shuai, Tong Sicheng, Bao Chakun	472
S133	EASES: A Study of an English Speaking Assessment System Based on Enhanced AI Integration Modeling He Dandan	479
S134	ISECA: A Comprehensive Framework for Enhancing Engagement and Assessment Utilizing SVM and GBDT Zhu Xueping, Qin Lin, Li Yanxing	484
S135	Air Leakage Detection and Rehabilitation Test Methods for Digital Thoracic Drainage Systems Xia Wu, Xizhong Shen	489
S137	Research on network security risk assessment and forecasting model for tobacco information systems Lu Yuhao, Li Lin, Wan Yunfei, Gao Yang, Zhang Guangbiao	494
S139	LiverSegNeXt: Improved MedNeXt for Liver Segmentation Jingjun Gu, Haoyu Hu, Wei Zhang	499
S140	Research on Algorithm Multi-dimensional Testing and Evaluation for NLP Intelligent Algorithms Yaming Zhang, Fei Liu, Jiaming Zheng, Longli Tang, Xinyu Han	504
S141	Research on the Application of Lora Mesh Technology in the Field of Service Performance Monitoring for Highway Infrastructure Yongkang Hu, Dantao Han, Zhen Wang, Qiuping Zheng	510
S144	Research on Wheat Spike Detection and Counting Methods Based on Lightweight Improved Network Yu Wang, Yu Miao	515
S145	A Strabismus Detection System Based on Digital Twin Guohua Xiong, Xianfeng Wang	521

S146	Research on the Construction and Performance Optimization of a Deep Learning-Driven Price Prediction Model for E-Sports Hotels Kong Chuang, Ren Shuaitao, Wang Hongwei, Zhou Hua	526
S148	Development of Novel Supervisory System of Underground Confined Space Operation Laihua Fang, Sixin Song, Xunxian Shi	532
S150	Multidimensional data fusion new area running condition assessment method of perception Ximei Zhan, Guowei Guo, Xinsen Yang, Beibei Wang, Xiaoyu Wei, Xuntao Shi, Jian Sun, Xiaobing Xiao	537
S151	Research on the Credibility Test Technology of Intelligent Autonomous System Shixian Jiang, Lijin Wu, Bojiang Liu, Kuangyu Jin, Xiaomei Shen	542
S152	A Clearing Model Considering Pumped Storage Generators in Day-ahead Market En Lu, Zhongfei Chen, Qiuna Cai, Yue Zhao, Zijun Liang, Jue Yu, Qiaoyu Zhang, Chuan Liu, Wentao Zou	547
S153	Research on Optimization Strategy of Land Battlefield Kill Web Based on System Dynamics Xiaofei Yang, Wenjing Yang, Xin Liu, Lu Zhang, Tonglin Deng	552
S155	Leveraging KNN and XGBoost for Comprehensive Evaluation of Integration Effectiveness Xie Ganlan	557
S156	The Research of Deep Learning Based on Visual Detection and Recognition Algorithm for Moving Object Shaojun Xiong, Xiangtao Qi	562
S158	An Enhanced Content-based File Retrieval System Lei Peng	567
S159	Research on ship product data management technology Fei Li, Weibo Pan, Sheng Li	574
S161	Reliability evaluation of shipborne land-based missile weapon systems Yuanqiu Che, Xiangwen Leng	578
S162	Development of Programmer Testing and Question Answering APP Based on SpringBoot Yihan Xu, Nan Xie, Dengren Chen, Wenjie Wu, Weimin Chen	582
S164	Ontology Construction of Knowledge Graph for Early Warning Equipment Maintenance and Support Field Feng Lujun, Fang Qiqing, Hu Yamin, Gu Chenggang, Liu Junwei	587
S166	Performance Analysis of Kubernetes Job Scheduling Model Based on Queuing Theory Weibo Pan, Sheng Li, Fei Li, Jun Zhang, Chao Fang	592
S170	Research on Mathematical Modeling Method and Calculation Efficiency of Vehicle Impact Crashworthiness Haitao Zhu, Weijing Li, Xiaobing Bu, Qingxiang Guo	596

S171	Intelligent Noise Reduction for Alarm Events Pingping Chen, Huiling Liu, Yongchao Zhang, Shaozhuo Peng, Yuehao Tang, Dingying Tan	603
S172	Literature Classification of Individual Reports of Adverse Drug Reactions Based on BERT and CNN Kai Xu, Yongku Zhang, Quanying Ren	608
S173	Hardware circuit design of intelligent door lock based on C language Fu Tong, Jiang Shaojun	615
S175	Study on Temperature Field of High Pressure Vacuum Interrupter Jingxia Huang, Haibo Su, Yong Wang, Junxiang Liu, Le Gu, Jianbin Ye, Yongchong Huang	620
S176	Improved YOLOv8 remote sensing image vehicle target detection Cui Liqun, Wu Yifan	624
S178	Improved X-ray image contraband detection algorithm for YOLOv8n Cui Liqun, Yang Yingying	630
S179	Research and Design of New Energy Dry-Type Transformer Prediction Device Zhangzheng Lin, Zhongqing Sang, Nairu Feng, Zewen He	636
S181	Research on Portable Surface Defect Detection System Based on Channel Pruning Technology Mingde Bi, Yingchao Liang, Yang Xu	643
S182	Research on a 3D Diagnostic System for Electric Vehicle Surface Damage Based on Fiber Optic Sensors and CenterNet Gaoxu Li	648
S183	Course Learning Early Warning Model Based on Optimized Bagging-Stacking and Random Forest Fu Yiwei, Shi Jingzhuo	653
S185	Recipe Recommendation for the Elderly Based on Collaborative Filtering Algorithm and Neural Network Qianyi Zhou	660
S186	Investigating the Role of Attention Mechanisms in Deep Learning for Video Understanding Wang Jiayang, Liu Yihan	664
S188	Application of Multi-Label Classification Algorithm Based on Embedded Feature Extraction in Financial Management Optimization System Xueting Li, Yingying Shu, Rui Ang	674
S190	Research on the Application of Support Vector Machine Algorithm Model with Multi-Modal Data Fusion in Breast Cancer Ultrasound Image Classification Lai Peng, Qian Leng	679
S191	Research on War Threat and Ground Force Defense Deployment Optimization Model Based on Dynamic Bayesian Network Model and Genetic Algorithm Hongyi Liu	684
S192	Research on Intelligent System of Remote Monitoring of 3D Printer Based on Internet of Things Technology Wu Jiao	690

S195	Optimisation Design of Remote Intelligent Control System for Mining Dampers Based on TRIZ Theory Zhuoyi Yu	695
S196	Enhancing Machine Learning for Employee Satisfaction Prediction Using MA-SOM: A Mayfly Algorithm Optimized Approach Zelin Hao	699
S197	Research on cargo volume prediction based on SSA-BiLSTM-LGBM fusion models Lijiale Yang, Ruifeng Wu, Jupin Tang	704
S199	Research on Intelligent Management and Scheduling Optimization System of Unmanned Commercial Resources Based on Cloud Computing Liu Shuangshuang, Hu Peng, Cao Ying, Niu Hongyu	709
S200	Research on Digital Restoration Display Technology of Intangible Heritage Landscape Based on Machine Vision Guoli Yang, Wen Wen	715
S203	Research on optimization scheduling algorithm of engineering project resources based on cloud computing Ping Dong	720
S204	User Behavior-Based Collaborative Filtering Recommendation Algorithm and Visualization in Second-Hand Trading Platform Rui Qiao, Xin Wang, Xiaoben Zhong	728
S206	Multi-dimensional carbon label evaluation of electric power based on improved analytic hierarchy process and entropy weight method Sun Jiawen, Fan Mao, Hua Dong, Cao Qian, Liao Mengke, Chang Xiqiang	733
S207	Research and application of intelligent algorithms driven by GPT large model in the field of data analysis Zhiyong Su, Jiantao Zhang, Jianeng Lin, Bixing Lin	738
S209	Research on financial fraud algorithm based on federal learning and big data technology Xinye Sha	743
S211	Research on Supermarket Pricing and Replenishment Strategy Based on LSTM and Grey Correlation Analysis Xiaorong Zhu, Shiyong Liu, Hao Wu	749
S215	Analysis of Product Sales Volume and Pricing Based on Multivariate Linear Regression Model and Time Series Forecasting Algorithm Linjie Zhou, Haolei Yang	754
S216	Research on intelligent poster generation system integrating computer artificial intelligence technology for visual communication design Qi Zhao	760
S218	Design and Implementation of Address Book Based on Android Technology Guixiu Ouyang	766
S220	Application of AR three-dimensional teaching materials based on big data Lai Weike, Wang Chao, Yin Xuxi, Wang Zhe	770
S221	Research on Digital System of Human Resource Information Based on Cloud Computing Xiao Han	775

S222	Empirical Cloud Computing Remote Human Resource Work Efficiency System Based on Data Mining Linfang Wu	779
S223	Short-Term Power Load Forecasting Based on Feature Selection and Improved Gaussian Process Regression Shouzhi Yue	784
S225	Design and Research of Pilot Physiological Signal Intelligent Analysis System Based on Deep Learning Tao Liu, Qian Wang, Zuosong Zhao, Yongjuan Li	790
S227	Application and Research Based on Exponential Weighted Moving Averages and GRU Modeling Xinyi Huang, Ziqi Wang, Yingxin Ai, Jing Feng	795
S228	Research on the Design of Computer Vision Augmented Reality Platform for University Innovation Integration Liu Feng, Yin Beilei, Huang Yanxuan, Hu Yong	801
S229	Machine Automatic Translation System Based on Artificial Intelligence Processor Design Luo Fei	806
S231	Research on electricity price forecast model based on electricity price formation mechanism and XGBoost and highly automated Optuna algorithm Ting Li	811
S232	Application of computer virtual reality technology in power system training and simulation system Yi Tao, Bowen Ping	823
S233	Research on product recommendation algorithm based on neural network for user interests Yaofeng Feng, Yuanwei Jing, Shiyu Tian, Xiaorong Yu	830
S234	Research on customization and personalized push system of micro-movie users' preference content driven by big data Lin Tongxi, Lin Danting	834
S237	Feature Extraction and Intelligent Generation of Spatial Environment Design Combined with Deep Learning Chuifeng Dong	840
S239	Research on the Impact of Momentum in Tennis Players' Matches Based on LGBM and ExtraTrees Models Xiwen Feng	845
S240	A Study on Merchandise Pricing and Replenishment Decision Based on Simulated Annealing Algorithm and Lasso Regression Hongye Wang, Zhao Yao	852
S241	A Study of Momentum Analysis Based on CRITIC and SA-LGBM Ruofei Xu	858
S242	A Bathymetric Model of Sea Area Based on Multi-Objective Planning and Multiple Search Algorithms Weijiekang Wang	863

S244	Abnormal Behavior Detection of Examinees in Surveillance Images Based on Deep Learning Wenqiang Xu, Junmu Wang	869
S245	Research and Application of LSTM Model and Diffusion Model Zenan Huang, Kai Wang, Yilin Xiao, Zhe Xiang	875
S246	Research on the improved graph convolutional neural network algorithm based on historical data analysis in the task of recommending attractions on online travel platforms Cizhen Yu, Qian Zhang, Xuecheng Wu	879
S249	Developing a Wearable System with fNIRs & EEG Multimodality Classification Engine & Miniaturized Device Jingjing Liang	885
S251	Road Waterlogging Information Monitoring and Feedback System Based on the Cooperative Vehicle Infrastructure System Zhiwei Liu, Weichen Dong, Xiaoning Wei, Yiwen Fu, Jinduo Yao	892
S255	Cross-domain recommendation algorithm based on sentiment analysis of reviews and early warning field side information Chen Jingwen, Liu Chunjia, Li Juan, Zhang Lan	897
S256	Application Research of Intelligent Algorithm in Short Video Recommendation System Optimization Personalized Recommendation System Jihong Yu, Lin Wang	903
S257	Investigation of Traffic Flow Forecasting Utilizing the KMeans-GRU Hybrid Model Yuang Ding	908
S258	Research on the Development Trend of New Energy Vehicles in China Based on BP Neural Network Modeling and Greedy Algorithm Qikai Liang, Ying Peng	912
S260	Automatic Report Generation Based on Text Summarization Meets Data Mining Jian Su	917
S261	Research on the Dynamic Object Segmentation Based on Computer Vision Technology Chengdong Fan	924
S262	Forecasting Catastrophe: Integrating GAN-ALSTM and Monte Carlo Simulations for Insurance Underwriting in Extreme Weather Futong Zhu	928
S264	Performance and Score Analysis of Athletes Based on EWM-TOPSIS Algorithm and GSRF Prediction Model Xinshuo Ma, Zihao Wang	933
S266	Research on Injury Identification Based on Analytical Neural Network Minghan Xu	938
S267	A Study of Momentum Analysis Based on Random Forest and ARIMA Ziqiao Jin, Tao Xie, Zhirui Li	944
S268	Construction of Knowledge Graph of Judicial Case Based on LLMs and Embedding Models Yicheng Shen	949

S270	Construction of Intelligent Educational Teaching Evaluation System Based on Knowledge Graph and Natural Language Processing Lin Lin	956
S272	Research on Student Behavior Pattern Mining and Management System Based on Deep Learning Shan Wang	961
S273	Research on Decision Support System for Location Selection of Rural Sewage Treatment Facilities Based on GIS and Intelligent Communication Lansheng Xu	966
S275	Application of Multi-Source Remote Sensing Data Fusion in Rural Sewage Treatment Effect Evaluation Lansheng Xu, Jun Zhang	971
S276	Predictive analysis of treasury bond risk based on combinatorial intelligence algorithm Lian Siran, Zhao Jianya	976
S277	Empirical test of visual recognition system of autonomous vehicle based on deep learning Zhijie Huang	982
S279	Overview of deep learning image processing Haoqi Zhai, Zishen Huang, Xin Lv, Biyun Lv	987
S281	Research on Equipment Effectiveness Evaluation Simulation Model Based on Parametric Identification Algorithm Li Xinze	995
S283	Research on detection method of gun bore defects based on image segmentation algorithm Xin Wang, Chenhe Zhang, Jie Yu, Yan Gao	998
S285	Research on Smart Information Tracing System Based on Blockchain Technology Xinyi Guo	1002
S286	Research and Application of LDA-based Topic Modelling and Co-occurrence Semantic Web Analysis Ruotong Wang	1006
S288	Research on an improved Sobel operator edge detection algorithm for inner wall rust image recognition of spiral tubes Hongmin Han, Pengcheng Zhu, Lu Ji, Duolin Liu, Yuming Ning	1010
S290	Real-time Fast 3D Reconstruction of Heritage Buildings Based on 3D Gaussian Splashing Weijia Wang	1014
S291	Electric Vehicle Routing Problem with Soft-Time Windows Considering Nonlinear Energy Consumption and Partial Recharge Strategies Yiling Li, Fangkai Hu	1019
S292	Transforming Data Management: Blockchain Solutions for Information Resource Systems Jiao Haojin	1026

S294	Research and Design of Intelligent Unmanned Group Attack Combat Simulation Modeling Architecture Based on “Circular” Decision Fangzi Cheng, Wenrui Zheng, Chengjun Xu	1034
S295	Research on Control Strategy of Upper Limb Assist Exoskeleton Follow up Assist Weisheng Cui, Deqiang Zhang	1039
S296	Research on Modeling Method of Close-Range Anti-UAV Swarm Combat Simulation Cheng Fangzi, Zheng Wenrui, Xu Chengjun	1044
S297	Research and Effectiveness Analysis of Intelligent Unmanned Equipment Group Collaboration in Combat Simulation System Minkun Guo, Wenrui Zheng, Chengjun Xu	1049
S299	Earthquake Magnitude and Depth Prediction Based on Machine Learning and Multiple Linear Regression Models Baoquan Cui, Jiale Guo, Gaofeng Han, Xurong Liu	1056
S300	Research on music emotion recognition and intelligent classification system based on deep learning Zheng Anna	1061
S302	Research on the Application of Human-Computer Interaction Technology in the Personalized Customization System of Intangible Cultural Heritage Clothing Anqi Chen	1066
S303	Study of Cluster Animation Creation Based on Playmaker Visual Programming and Its Application in VR System Yanda Du, Zhuo Wang, Yongsheng Wang, Yongsi Du	1071
S304	Research on Artificial Intelligence Interaction Characteristics Affecting E-Learning Users' Sense of Trust Zhang Qian, Wang Hua	1078
S306	Research on Upstream and Downstream Supply Chain Risk Based on Improved Sparrow Search Algorithm and Long Short-Term Memory Network Xinyi Wang	1083
S307	Research on Intelligent Algorithms of Deep Learning in English Translation Quality Assessment Yujia Gao	1088
S308	Research on Computer Aided French Audiovisual Intelligence System Fengyi Sun	1093
S310	Establishment of Deep-Sea Slope Detection Model and Model Solution Based on Greedy Algorithm Yuyuan Zheng, Yi Liu, Haotian Li	1098
S311	Research on the Prediction of Rockburst Risk in Deep Coal Mining Based on Random Forest and Support Vector Machine Models Zhaozhuo Qu, Hongyou Zhuo, Zijing Ye, Huiling Tao, Minglong Li	1104
S312	A Quantum Genetic SVM-based Model for Predicting Daily Circulation Visits to Senior Public Service Facilities Yadi Zhao	1110
S313	Design of an Automatic Weeding Robot System for Mulberry Garden Yuanji Chen, Huicong Tao, Zhiling Chen, Yisheng Wan, Manping Qin, Yong Qin, Chaopeng Wu, Choon Kit Chan	1117

S314	Study of the Scraper Conveyor Chain Tension Regulation Technique Utilizing Data Fusion Xing Su, Pan Wang, Rui Jiao, Hongfei Liu, Yuxuan Liu	1124
S318	Mechanical Design and Tension Optimization of Rigid-flexible Hybrid Robots for Container Yard Operations Liu Yang, Qian Sen, Zi Bin	1131
S320	A Hierarchical Disposal Method Based on Task Allocation Jianxin Ren, Pengjie Liu, Manfei Zhao, Tong Gao, Heng Yang, Haofeng Wang	1139
S321	Research on financial risk early warning based on deep neural network and Logistic model Siming Li, San Zhang, Zhidong Wang, Qiuyue Li, Yuxi Wang, Zhuoyi Deng, Yanjun Lin	1143
S323	Research on Multi-Beam Line Layout Model Based on Greedy Algorithm and Particle Swarm Optimization Algorithm Hanbo Xu, Binghang Wang, Jingwen Cui, Liu Yang	1150
S326	Study of Multibeam Line Measurement Problem Based on Depth Bug Algorithm Shengmin Zhang	1157
S327	Analysis and Research on Learning Behaviors Based on K-means Algorithm in MOOC Platforms Jianqiang Chen	1162
S329	Research on Protection Technology of Key Parts of Armoured Vehicle Based on Adaptive Algorithm Hui Chai, Meihui Bian, Chunsheng Liu, Jun Li, Wenjun Guo	1169
S331	Overview of target detection algorithm based on deep learning Jinke Huang, Min Fu, Taolve Tang, Xichao Dai	1174
S332	Application of Artificial Intelligence-based Big Data Technology in Decision Support Systems Yuan Ye	1179
S333	Research on optimizing personalized recommendation system of brand promotion content with deep learning algorithm Bing Hao	1186
S334	Research on building system of brand operation effect prediction model based on machine learning Bing Hao	1192
S336	Research on smart contract application system integrating big data platform and blockchain technology in universities Xiao Yu	1198
S337	Research on security storage and access control system of big data in universities based on blockchain technology Xiao Yu	1203
S339	Advancements in Feature Extraction Recognition of Medical Imaging Systems through Deep Learning Technique Qishi Zhan, Dan Sun, Erdi Gao, Yuhan Ma, Yaxin Liang, Haowei Yang	1211

S340	Integrating Medical Imaging and Clinical Reports Using Multimodal Deep Learning for Advanced Disease Analysis Ziyan Yao, Fei Lin, Sheng Chai, Weijie He, Lu Dai, Xinghui Fei	1217
S341	Exploration of Multi-Scale Image Fusion Systems in Intelligent Medical Image Analysis Yuxiang Hu, Haowei Yang, Ting Xu, Shuyao He, Jiajie Yuan, Haozhang Deng	1224
S343	Efficiency optimization of large-scale language models based on deep learning in natural language processing tasks Taiyuan Mei, Yun Zi, Xiaohan Cheng, Zijun Gao, Qi Wang, Haowei Yang	1230
S344	Investigation of Customized Medical Decision Algorithms Utilizing Graph Neural Networks Yafeng Yan, Shuyao He, Zhou Yu, Jiajie Yuan, Ziang Liu, Yan Chen	1238
S345	Application of multimodal fusion deep learning model in disease recognition Xiaoyi Liu, Hongjie Qiu, Muqing Li, Zhou Yu, Yutian Yang, Yafeng Yan	1246
S346	Exploration of Attention Mechanism-Enhanced Deep Learning Models in the Mining of Medical Textual Data Lingxi Xiao, Muqing Li, Yinqiu Feng, Meiqi Wang, Ziyi Zhu, Zexi Chen	1251
S349	Leveraging Deep Learning Techniques for Enhanced Analysis of Medical Textual Data Yiru Cang, Yihao Zhong, Rongwei Ji, Yingbin Liang, Yiming Lei, Jinyin Wang	1259
S350	Advancing Financial Risk Prediction through Optimized LSTM Model Performance and Comparative Analysis Ke Xu, Yu Cheng, Shiqing Long, Junjie Guo, Jue Xiao, Mengfang Sun	1264
S352	Research on Intelligent Prediction of Learning Styles Based on Multiple Algorithms Jianqiang Chen	1271
S354	Academic achievement prediction based on attention neural network algorithm Fangfang Xu, Cizhen Yu	1275
S356	Vessel Trajectory Prediction Method Based on LSTM Model Mingxuan Wang, Chuanjia Wang	1280
S357	Research on Computer-Aided English Vocabulary Learning System Enhanced by Computer Big Data Xiang Jin, Zhijian Zhao	1286
S359	Research on Interior Design Platform Based on 3D Virtual Vision Qun Wang	1291
S360	Optimization Research on Position Dynamics Skinning Animation Generation Algorithm Based on Maximal Cliques Jia Qin	1295
S362	Research on Computer Vision System for Intelligent Management of Football Stadium Based on Internet of Things Yongxiang Zhang	1300
S363	Research on Cardiovascular Disease Risk Prediction Based on Machine Learning Tingting Liu	1305

S365	Typical landslide monitoring early warning and susceptibility evaluation based on BP neural network model in Zhouzhi County Yan Cheng, Wendong Zhang, Feng Zhao, Shuai Yang	1310
S366	Application of Natural Language Processing in the Automatic Detection of English Writing Errors Cailan Nie	1316
S368	Support Vector Machine Regression Optimised by Genetic Algorithms for Calculating the Ageing Population Yadi Zhao	1321
S369	Analysis of Power System Power Regulation Based on Differential Equations and Computer Simulation Xu Jiang	1326
S370	Study on the Efficiency of Urban Railway Transportation Based on the Hybrid Model of CNN and BiLSTM Luyi Fan	1332
S371	Construction of Financial Market Transaction Signal Recognition Data Mining Prediction Model Based on Deep Learning Huihui Han	1338
S373	Research on Immersive Experience Simulation System of Virtual Reality Technology in Visual Art Creation Lishi Zhou, Liang Huang	1343
S375	Research on AI Translation Based on Natural Language Processing Wang Fengxia, Wang Yu	1348
S376	Research on Risk Prediction of Deep Mining in Coal Mines Based on Neural Network and Stacking Integrated Learning Model Shiwei Du, Congkai Yang, Yuqi Jia, Yixiong Hou	1353
S377	Research on the two-stage vehicle routing problem of returned logistics recycling of waste electrical Shenyan Jiang, Wenxin Li	1359
S378	Research on the Construction of Multi-Sport Integrated Training Monitoring Platform under 5G Network Environment Yi Hu, Jing Liu	1364
S380	Integration Design of Motion Capture and Sensor Technology in Home Fitness He Chen, Xu Hong, Kaiwen Xiao, Sujie Mao	1369
S382	Improved Extended Space Index Modulation Zongren Chen	1377
S383	Exploration of Data Privacy Protection in Financial Risk Assessment Models Based on Computer Vision Technology Xinyun Tang, Shaoli Li	1382
S384	Multi classification of industrial imbalanced data based on LSGAN Ming Yang	1387
S385	Real-time monitoring and early warning system of athlete health condition based on computer Internet of Things Yi Hu, Jing Liu	1392

S387	Research on the Application of Full Convolutional Neural Networks in the Accurate Detection of HD Video Targets in Sports Events Yongping Ma	1399
S388	Research on Image Recognition Technology of Prefabricated Building Components Based on Convolutional Neural Network Du Jiao	1406
S390	A novel vibration suppression approach of multi-mode flexible systems using principle of vibration superposition Pu Zhao, Zhiming Zhang	1415
S391	Microseismic Data Analysis Briefing Automation System Based on Selenium Wanyi Yu, Hu Ji, Shiqiang Yu, Chi Zhang	1421
S392	Research on safety strategy of new power system standard system planning based on model Haiqing Xu, Haixiang Zhao, Tian Fu, Sining Wang, Wenqing Li	1425
S395	Application of passive pressure sensors in the online monitoring scenario of GIS equipment in hydropower stations Min Jiang, Hua Qiu, Shi Tang, Daxing Jing, Yuan Luo, Po Zhang, Lang Huang	1430
S396	Research on the Application of PSO Algorithm in Aviation Control Flight Plan Path Search Beiyuan Xu	1435
S397	Design of Offshore Wind Power ROI Energy Analysis Model Using XGBoost Algorithm Qianhua Ge	1440
S398	Fuel Cell Systems Based on Dymola Modeling and Simulation Jian Guo, Mengmeng Hao, Qingshuai Xiong, Peng Yu	1445
S399	Blockchain-based Emergency Supplies Information Sharing System Xiaoyu Wang	1449
S400	Research on Reliability Evaluation Accuracy Model of Transmission and Transformation Circuit by Using Big Data Analysis Technology Wan Li, Wang Xiaorui	1454
S401	Research on Prediction Model of Dissolved Gas Concentration in Transformer Oil Based on Deep Learning Algorithm Wan Li, Wang Tao	1459
S403	Application of Intelligent Algorithm in Power Load Forecasting and Energy Management Huan Gao, Tingze Zhang	1464
S404	Research and Application of Random Forest and ARIMA Based Modelling Siyue Wang, Fangtong Liu, Xiaojun Niu	1469
S405	Vehicle Speed Guidance Strategy at Signalized Intersections Considering Communication Delay under the Vehicle-to-Infrastructure Cooperation System Runjia Dai, Biao Zhao, Xiaofeng Liu	1474
S406	Virtual Power Plant Scheduling Strategy Based on DQN Deep Learning Algorithm Yan Guan, Wenjie Fan, Rundun Zhang, Xuanyu Song	1479

S407	Assessing and Recommending Brand Features of Electronic Products through Online Reviews and BiLSTM Models Peilin Lou	1484
S410	Research on Tourism Path Optimisation Based on Improved Ant Colony Algorithm Yuxi Du, Mengxuan Liang, Kai Hu, Chuhang Zhan, Yuyang Feng	1489
S411	Research on Real-Time Monitoring and Early Warning System of Offshore Oil Exploitation Environment Based on Intelligent Algorithm of Internet of Things Wang Xiaohui, Liu Xiao, Chen Chao, Li Yuan, Li Mo	1495
S414	Book borrowing behavior analysis and prediction based on time series analysis and LightGBM Shuya Zhang, Yi Yang	1500
S415	Simulation and Effectiveness Analysis of UAV Target Air Defense Combat Module Junqian Li, Wangxu Li, Chengjun Xu	1505
S417	Modeling Research and Effectiveness Analysis of Urban Warfare Based on Information Entropy Uncertainty Siyuan Fan, Wangxu Li, Chengjun Xu	1510
S418	Research on Optimization Algorithm of Air Defense Force Operation Method Based on Multi-combat Environment Siyuan Fan, Wangxu Li, Chengjun Xu	1517
S420	Modeling and Simulation Analysis of Multi-Agent in UAV Swarm Attack and Defense Combat Junqian Li, Wangxu Li, Chengjun Xu	1523
S422	Automatic Quality Control System for Aircraft Assembly during the Whole Life Cycle Based on Digital Twin Runze Liu, Yajun Li, Changyong Gao, Haoyu Wu, Xikang Cheng, Xia Ye, Yang Zhang, Wei Liu	1531
S423	Exploring the Application of Large Language Models in Spoken Language Understanding Tasks Mingjie Li	1537
S425	Research on an Intelligent English Translation System Based on Simhash Algorithm Yiping Luo, Jie Pan	1543
S426	Research on Adaptive Signal Optimization Algorithm of Intelligent Decision Support Enterprise Based on Deep Learning Junyu Yu	1548
S428	The Influence of Artificial Intelligence Algorithm Optimization on the Accuracy of Pathological Diagnosis in Electronic Information Engineering Li Huang, Xiaobiao Zhou	1553
S430	Research on the reliability and path optimization of three-dimensional warehousing vehicles based on genetic-ant colony algorithm Chang Sun, Yuyin Zhang	1558
S431	Study on Sales Forecast and Impact of New Energy Electric Vehicles Based on BP Neural Network Xiaoyang Li, Changhao Tian, Zhixuan Liu, Xiangrui Zeng	1564

S433	Research on Data Privacy Protection and Heterogeneous Data Fusion of Joint Learning in Intelligent Sensor Networks Wenxin Guo	1570
S434	Application of Multi-source Heterogeneous Data Fusion in "One-stop" Student Service Platform Minlin Zhou, Junna Luo, Yuzhen Ke	1575
S435	The Application of Cloud Computing and Support Vector Machine in the Construction of Entrepreneurial Model Yali Xiong	1581
S437	Research on Seismic Signal Identification and Magnitude Prediction Model Based on Sample Entropy and Machine Learning Li Pan, Mingyuan Liu, Rong Chen, Shuwen Ma	1586
S439	Traffic Sign Detection Based on Lightweight RT-DETR Zexuan Wang, Xuemei Lei, Shuoshuo Zhou	1593
S440	Study of Submersible Trajectory Prediction Based on Kalman Filter Algorithm Haotian Yu, Yun Zheng, Jiahao Xu	1598
S441	A Study of Crop Yield Prediction Based on Backpropagation Artificial Neural Network (BP-ANN) Zi'ao An, Jianghong Zheng, Shuaiyao Huang, Zheng Zhang, Di Wu, Wanting Liu	1606
S443	Study on the Stability of Nonlinear Mathematical Models in Dynamic Evolution of Complex Networks Zhijing Zheng	1613
S444	Testing and Optimization of Gear Shift Strategies Based on Pure Electric Mixer Trucks Min Wang, Yanbin Qin, Xin Miao, Yuntong Zhao, Kuijun Chen	1618
S445	Design and Research of Virtual Human Based on Deep Learning and Paddle Model Yingjie Wu, Shuxiang Lu	1623
S446	Application of Virtual Reality Technology and Convolutional Neural Network in Training Simulation Scenarios Yawen Yang	1630
S448	Research on the Application of Object Detection and Data Collection in Recruitment System Yilin Zhao	1635
S449	Wind power prediction of BiTCN-BiGRU-KAN model based on attention mechanism Manman Li	1640
S450	Design of an English Translation System Based on Particle Swarm Optimization and Artificial Intelligence Algorithm Xiaoling Fu	1646
S451	Research on Algorithm Driven Path Planning in Intelligent Transportation System Duan Nan, Wang Weijie	1651
S453	Research on Real-Time Rendering and Dynamic Adjustment Algorithms for Animation Design Systems Aihua Zhang, Yufei Li	1655

S454	Design of Personalized Content Recommendation System for English Reading Based on Deep Learning and Intelligent Algorithms Ming Qiang	1659
S456	Effect of Breathing Rate Change on Electroencephalogram Signal in Awake State Cai Chen, Fulai Peng, Danyang Lv, Ningling Zhang, Yunjie Zhang, Xingwei Wang, Xikun Zhang, Fengxia Wu	1664
S457	Research on Pavement Disease Detection Method Based on Improved Mask R-CNN Juanjuan Yang, Feng Wang, Yang Pang, Jinquan Hou	1670
S458	Geometric Modeling and Algorithmic Simulation in Multibeam Echosounder (MBES) Systems Rui Liu, Keran Duan, Kun Cheng	1677
S459	Investigation into a Short-term Electric Load Prediction Model Leveraging K-means Clustering Enhanced Convolutional Neural Networks Yizhong Tang, Yueliang Cheng, Chuanxiu Wang, Xue Dong, Xingyan Deng, Yingdong Luo	1682
S461	Support vector machine detection strategies for different types of faults Xuye Wang, Ziming Xu, Huiyang Li, Dingrui Liu	1688
S462	Evaluation method of autonomous controllability of code generator based on fuzzy information entropy Bingyu Song, Xianyong Lv, Jiadong Li, Wenjie Fu, Ziliang Wang, Wenshan Hua	1692
S464	Feature Association Algorithm of Similarities of Multidimensional Automobile Consumer Tags Yang Jing, Zhao Yishu, Zhang Fan	1700
S465	Research on indoor area personnel abnormal gathering warning and control technology based on WiFi7 Chao Long, Wenjing Wu, Donglin Wang	1706
S470	Operation prediction model of power maintenance robot based on Taylor linear fitting Jia Zhao, Bo Peng, Hao Sun	1710
S471	Research on Prediction of Nonlinear Regression Problem Based on PSO-SVM Yonglin Hong, Wei Song	1716
S474	Wind speed time series prediction model based on EMD_LSTM_GWO Conghan Zhong, Qiuxue Ouyang, Runxia Ding, Chuanlei Song, Ranran Li	1723
S475	Research on Feedback System of Ideological and Political Teaching Resource Base Based on Emotion Analysis and Deep Learning Yao Qiujiang	1730
S476	The optimal scheduling of solar-wood-storage microgrid system considering the operation characteristics of the isolated island mode Jingcheng Kong, Junyi Zhou	1735
S477	Optimization of Unit Commitment in Rural Microgrid Considering User Load Characteristics Haoxuan Xu, Zhenhao Zhang	1741
S480	Research on Distributed Microgrid Group Optimization for Ships Based on Optimized Particle Swarm Algorithm Bowe Xiao, Wenbin Ma	1749

S481	Research on Motion Recognition and Real-Time Classification Algorithm of Sports Event Video Based on Deep Learning Yongping Ma	1758
S483	Research on the health state identification method of rotating machinery components based on the improved AlexNet framework Ziwu Xu, Jingyang Qi, Chenchen Jin	1764
S485	Optimization design of multi-beam sounding line based on geometry Shengchao Yang, Yang Li, Chen Yuan, Wen Wen	1771
S486	Research on Submersible Search Models Adapted to Dynamic Environments and Multi-UUV Collaboration Bolun Su, Huijie Feng, Chengyu Chen, Siwen Wang, Yiming Shao	1779
S487	A Study on Highway Traffic Volume Forecasting Based on the SARIMA-GCN-LSTM Model Youdong Wen, Ruonan Yang, Ting Huang, Haipeng Xiong, Guangcheng Wang	1788
S490	Multi-modal Graph-based Sentiment Analysis via Hybrid Contrastive Learning Jiale Zhang	1795
S491	Research on seafloor topographic bathymetry problem based on multibeam line optimization model Yulin Wang, Wenju Liu, Yipeng Hu, Xinyu Duan	1804
S492	Text Detection and Character Recognition of Oracle Original Topographies Based on PP-YOLOE+ Xiang Li, Mingqi Zhang, Xiaoman Du	1811
S493	A Systematic Study on the Privacy Protection Mechanism of Natural Language Processing in Medical Health Records Xinghui Fei, Sheng Chai, Weijie He, Lu Dai, Ruilin Xu, Lianjin Cai	1819
S495	Research on Real-Time Image Data Transmission System of UAV in Fault Location of Distribution Network Wang Wendong, Zheng Xiaobin, Qiao Ping, Liu Jiefeng, Cheng Haitao	1825
S496	Research on Condition Monitoring of Intelligent Remote Photovoltaic Heat Pump Co-Use System Based on Internet of Things Technology Tong Xie, Keyu Huang, Yicheng Deng	1830
S497	Research on seismic performance evaluation system of power grid structure based on multi-source sensing information Haitao Cheng, Zezhao Wang, Chuang Deng, Maojie Tian, Guozhu Yang, Enhui Wei, Jingru Liu, Huamin Sun	1835
S501	Design and Performance Analysis of OFDM Systems in 5G Networks Kecheng Wang	1840
S505	A Neural Network Algorithm for Detecting Driver Distraction Qirong Yang	1845
S506	Optimized design of a 4-bit absolute-value detector Zhengyi Liu	1851

S507	Measurement method of key parameters of automobile connector based on binocular stereo vision Guangze Bai, Jun Gu, Yan Xing, Guiyan Xue, Xu Guo, Wanze Song, Congbo Luo, Yu Gu, Lai Wei, Xue Liu	1856
S508	A Method for Ballistic Missile Trajectory Correlation Based on Trajectory State Estimation Shi Qu, Cangzhen Meng, Hongbin Jin, Weiqiang Deng	1862
S510	Short-term load forecasting model based on BWOA-LSSVM Kun Liu, Bingbing Chen, Juanjuan Wang, Yuxin Yang, Guangliang Sun, Xiao Guo	1867