2026 International Conference on Generative Artificial Intelligence and Information Security (GAIIS 2026)

Wuhan, China
27-29 March 2026

Pages 1–442

IEEE Catalog Number: CFP263BS-POD
ISBN: 979-8-3315-4623-6

Copyright © 2026, IEEE

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:	CFP263BS-POD
ISBN (Print-On-Demand):	979-8-3315-4623-6
ISBN (Online):	979-8-3315-4622-9

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



TABLE OF CONTENTS

Construction and Application of Computer Science Knowledge Graphs Based on Large Language Models 1
Yu Zhang, Cuiping Zhang

Towards an Intelligent Terminology Assistant: A Framework Integrating Small Language Model with Graph RAG 6
Shansi Zhang, Min Li

Global vs. Regional: A Comparative Measurement of Token Efficiency in State-of-the-Art Large Language Models 11
Wenguo Zhang, Qiang Du, Zhangwei Feng, Zening Fan, Feng Tian, Yingbo Zhou, Yuanye Tao

PVAdoptAgent: Simulating Residential Photovoltaic Adoption via an LLM Framework with Dynamic Decision Intervals 17
Tongyun Li, Kang Yao, Junwei Liu, Fuzhen Shen, Juan Feng

A Hybrid Evaluation Architecture for Electronic Components Selection Integrating Large Language Models and Retrieval-Augmented Generation 24
Jiaqi Zhang, Xu Wang, Hong Cheng, Zhibo Yang, Huaxing Gao, Chao Zhou, Jinying Huang, Shengge Wang

Integrating Large Models with RAG Technology: An Applied Research on Enterprise Intelligent Q&A Assistants 32
Ziwu Long, Can Liu, Ruirui Zhao, Zibo Huang

LLM inference delay prediction based on machine learning algorithms 37
Jingtao Zhang, Haorui Gao

MonoRouter: Enforcing Monotonicity in Item Response Theory for LLM Routing 42
Yousheng Zhu

Construction method of multi disaster command and dispatch intelligence system based on knowledge graph and large model 49
Shufeng Yang, Yanliang Guo

Adaptive Prompt Generation Agent: A Dynamic Prompt Engineering Framework for Chinese Text Generation 54
Tian Xie, Shuai Wu, Dong Zhang, Yifei Wang, Shukai Duan, Lidan Wang

Research on the Enhancement Method of Large Language Model Inference Based on Knowledge Graph Fusion 59
Xinrun Wang, Ke Xu, Ran Liu

Research on Deep Reinforcement Learning for Natural Language Generation and Semantic Understanding 65
Xiangming Duan

CoD-Judge: Efficient LLM-as-a-Judge for Biomedical Relation Extraction Evaluation via Chain-of-Thought Distillation 69
Zhuo Li, Quan Qian

Complex Task Planning for Large Language Models via Text-Code Collaborative Reasoning 74
Chanjuan Tang, Zefei Long, Xinqi Wang, Zhengtao Wang, Guanying Li

A Generative AI Framework for Privacy-Aware Audience Perception Analysis: Leveraging Large Language Models for Comment Understanding and Content Profiling 80
QiMing Liu, JiaYi Wu, RuoLei Deng

MemGaussian: Text-to-3D Gaussian Generation via Alternating Attention and Regularization 85
Hechuan Wan, Junjie Peng, Jiaxin Chen

DeepServeCB: SLO-Aware and Cost-Aware Elastic Scheduling for Serverless Multi-Tenant LLM Inference 90
Xuexian Li, Xiayuan Liu, Zilong Wang, Zijian Xiao, Chun-Yao Hsieh, Yixue Liu

FLAP: Faithful LLM-Aligned Prompting for NLP-Driven Abstractive Text Summarization via Saliency-Guided Encoding and Reinforcement-Based Faithfulness Optimization 96
Yuxin Chen

Automated Modeling from Medical Guidelines to BPMN Based on Large Language Models 101
Feng Gao, Jian Chen, Yinghui Jin, Siyuan Ruan

TCG-CTG: A Thinking-based Constraint Guidance Dataset for Controllable Text Generation 106
YuQiao He, Yan Zhuang, Yuan Sun

ALDMAgents: An Integrated Multi-Agent Collaborative Framework for Apple Leaf Disease Detection and Treatment Plan Generation Based on LLMs 114
Zhongtao Xu, Dianhui Mao

Semantic-Driven Adaptive Multi-Agent Collaboration via LLMs in Dynamic Environments 119
Xia Wu, Zhenjie Wang, Jian Zhang, Ziwen Gao, Zhou Jiang

Generative AI-Driven Adaptive Consistency Maintenance for Distributed Simulation Systems 124
Menghan Liu, Gangyi Ding

Corrective Distillation: Mitigating Catastrophic Forgetting in LLM Fine-Tuning via External Correction of Self-Generated Errors 130
Jianchun Jiang, Yingfei Qu, Hui Li

Multi-Stage Iterative Retrieval for Power Communication Document Generation: An Agentic RAG Workflow 135
Chanjuan Tang, Junran Ruan, Xinqi Wang, Zhengtao Wang, Weiwei Wang, Lingzhi Li, Jiuchun Ren

Research on Automatic Generation of Ophthalmic Medical Records Based on Large Language Models 141
Ying Li, Qi Li

Learning to Debate: Optimal Stopping Strategies for Multi-Agent LLM Deliberation 145
Xinyi Zhang, Di Hu

Controllable Echocardiography Video Generation for Safe Medical Data Sharing 153
Jinduo Wang, Fang Zhou

Auditing Hallucination in Lightweight Vision-Language Models for Radiology Captioning 157
Ziwei Wang, Haoyun Zhang, Chen Xie, Di Zhu, Zihan Wei

Classification of RAG Retrieval Intent Based on Machine Learning Algorithm 162
Shijia Du, Xiaobo Zhang

Structure-Aware Knowledge Composition: Enhancing Multi-hop Question Generation via Entity Relation Injection 166
Yana Lv, Lang Yang, Xiuli Du

DiffTKGR: Dual-Branch Conditional Diffusion for Temporal Knowledge Graph Reasoning 172
Guancheng Tian

RTC-DDPM: A Physical-Feature-Guided Radar Tide Data Augmentation Model 177
Yang Han, Xinglin Zhang, Hai Guo, Longfei Li, Pengfei Bai

Imitation-Pretrained Q-Guided Diffusion Policy for Sample-Efficient Autonomous Driving 182
Xingyu Liu, Dejun Yin

A Semantically-Guided GAN-Based Visual Data Augmentation Method for Field Robot Vision 186
Qiaofeng Bai, Tianxu Han, Wenhao Wang

HandInsight: Reinforcement Learning for Generative Hand Anomaly Localization 190
Yizhong Zhang, Tong Tong

A Behavioral Benchmark Dataset for Evaluating Access Control Compliance in Large Language Models 194
Yunsong Xin, Chen Yang, Zhihui Zhang

How2AIHeap: Construct An Agent to Analyze Heap Exploit and Recognize Exploit Pattern 199
Shaoqin Chen, Jian Wang, Kaijie Huang, Honglue Hu, Kun Huang, Yuxuan Zhang

LLM-driven Dark Web Intelligence Analysis Pipeline 209
Lei Jiang, Meng Wang, Yongqing Sun, Jiayi Wang, Haohao Zhang, Haohua Duan

Large Language Models for Software Vulnerability Detection: A Survey of Methods, Evaluation, and Future Trends 216
Canpeng Li, Yanghui Tan, Jie Zheng

Security Issues and Evaluation of Large-Scale Inference Models: An In-Depth Analysis Based on Long Chain-of-Thought 223
Enze Shi

Token-Anchored Semantic Drift: Untargeted Transferable Attacks Against Commercial MLLMs 230
Tianying Shen

Enhanced Encrypted IoT Malicious Traffic Detection via Adaptive Fusion and Focal Loss: An Improved Heterogeneous Graph Approach 237
Mianzhang Luo, Xiaoyi Yang, Yuqing Lan

Research on risk user identification model based on differential privacy protection 243
Chunmei Fan, Yingting Zhu, Wen Li, Yuxuan Ji

LightARM-Net: Accelerating Sparse-Attention Tabular Model for Android Malware Detection 249
Nattapong Neadtip, Kian Ming Lim

NAVIGATE: Multi-Agent Graph-Based Vulnerability Detection with Adversarial Severity Assessment 258
Yang Guo

A Dynamic Security Warning Mechanism for SDN Based on Alert Information 270
Ruixin Hu, Liguo Fang, Haitao Lv

Hybrid Intrusion Detection System Integrating Decision Tree and Convolutional Neural Network with Adaptive Dynamic Loss Balancing 281
Ni Jin, Jiachun Zheng, Zhiping Xu, Kunsan Zhang, Renguang Zheng

Secure Embedded Hardware Architecture for Embodied Generative Intelligence in Robotic Perception–Action Systems 285
Yanpei Su

A Time-Decay-Based Recommendation Algorithm for Vulnerability Fixers 289
Jiayin Wei, Ting Liang, Jianqiang Han, Lin Yao

A Proactive Ransomware Defense Model for SSDs Based on AVEIO Features and Random Forest 295
Hua Liang, Wei Li, Feng Yang, Shuang Gao

A High Scalability Data Sharing Scheme for Vehicular Fog Computing Based on Blockchain 301
Yihui Liu, Runjie Liu, Jiahui Li

Multi-View Graph-Based Code Representation Learning for Vulnerability Detection 310
Zheng Yuan, Chun Shan, Pengzhe Heng

High-Performing Quantum-Safe Password-Authenticated Key Exchange for Mobile Devices 317
Peixin Ren, Xiaozhuo Gu, Kaibo Liu

A Unified Semantic Space-Based Backend Frame-work for Speech Spoofing Detection 326
Yuxiao Qiu, Gang Liu, Zexuan Liu, Yuxi Chen

A Modeling Method for Prior Information Representation of Anti-Active-Jamming 330
Tong Yu, Zhiyong Song

Lightweight Encryption and Cross-Domain Collaborative Security Management Technologies for Low-Altitude Intelligent Networks 335
Haifeng Shan, Jinyi Liu, Chen Yuan, Zhanfeng Wang

Design and Implementation of Unmanned Aerial Vehicle Identity Authentication Algorithm Integrating Radio Frequency Fingerprint and Behavioral Features 341
Jinyi Liu, Mei Chen, Chen Yuan, Zhanfeng Wang

DO-ForceEHash-Embed: Double Oblivious Extendible Hashing for Secure Keyword Update in Confidential Computing 346
Chenyang Wang, Jialin Chi, Guizhou Liang, Tianhuo Bao, Min Zhang

A Collaborative Privacy Protection and Deletion System for Outsourced Data 352
Han Xue

VulD-SRCM: A Source Code Vulnerability Detection Model Based on Semantic Residual Compensation 357
Mengjia Li, Weiyu Dong

An Efficient and Verifiable Multi-Keyword Search Scheme with Forward Security 362
Nianyi Huang

An AHP-Based Decision Model for Applying the Principle of Proportionality to Cyber Operations 366
Deshuo Xiong

SecAgg: A Secure Federated Aggregation Scheme Based on Additive Secret Sharing 371
Yuxiao Yang

Secure and Efficient Data Synchronization for Digital Cousins in Edge–Cloud Environments 375
Zhurong Tan

A Study on Information Security of Internal Communication Bus in Fire Automatic Alarm Systems 380
Xiaobai Li, Yu Shao, Yingcong Zhang, Jiansong Wang, Zibo Yuan, Chen Zhong

Research on Group Neural Key Synchronization Based on N-ary Tree 388
Tao Zhou, Ling Zeng, Jing Yang, Fang Zhang, Yuxuan Guan

Radar-Communication Physical Layer Security via Fast and Accurate Array Response Control 395
Jingtai Zhou

Research on a Lightweight Key Management Mechanism for ADS B Systems 400
Enming Liang, Hui Xu

Automated Binary Code Analysis Technology Enhanced by Variable Knowledge Graph 404
Shunda Meng, Bing Xia, Yi Lin, Jiabin Yin

Vulnerability-Guided Node Injection Attacks on Graph Neural Networks 408
Jining Zhang, Shuang Xu

Analysis of Information Security Risks and Countermeasures in the Era of Big Data 414
Zhoubin Teng, Qichen Lu, Zhuoyi Shen, Yaoyan Cai, Yirun Chi, Lei Zhang

Edge-Assisted Smart Home Gateway with Hardware-Level Air-Gap for Deterministic Privacy 422
Yuquan Chen, Mingming Zha

MC-ETC:A Robust Multi-View Flow-Level Encrypted Traffic Classification Method Based on Co-Training 426
Jiawen Zhang, Jing Li, Jiaqi Zhang

An Efficient Encrypted Graph Query Scheme Based on Bloom Filters 434
Linbo Zhou

Cognitive Shield: An Interpretable Stacking Ensemble for Advanced Cyber Threat Analytics in IoT Networks 439
Hammouda Mohamed Islam, Ning Bai, Shouyue Wang, Xiaoya Hu

SM3ChainGuard: Time-Anchored Hash Chain on Blockchain for Tamper-Evident Multimodal Data in Elderly Care Environments 443
Ningyang Tang, Yuxing Duan, Qingsong Li, Hang Cui, Mengchio Lin

Dual-space Sparse Mask Injection: A Defense Framework for Large Language Models Against Jailbreak Attacks 449
Xiniao Deng, Rui Cai

Security Governance Methods and Quantitative Evaluation for Enterprise SMS and Verification Code Systems 455
Guangbin Gao, Runda Gao, Chenghe Lu, Runhang Gao, Yihang Kuang

A Hardware Trojan Detection Method Based on Recognizing the Waveform Similarity of Oscillating Circuit 459
Ding Ding, Furong Yu, Kaibo Sun, Lei Zhang, Jianxin Wang, Chaoen Xiao

An Efficient and Secure Encrypted Multi-Keyword Search Scheme 465
Tuoda Pan

Violent Video Detection Based on Multimodal Video-Text Fusion 469
Zhenjiang Li, Kai Chen

RumGAN: Rumor Detection via Graph Attention Network with Multi-Feature Fusion 474
Jing Qiu, Fengping Xu, Yiheng Shen

Applications of Intelligent Image Recognition Technology in Modern Security Inspection and the Evolution of Screening Equipment 478
Xiang Shen, Guangming Yang

Tracker-LLM: Enhancing Visual Object Tracking via Bi-directional Chain-of-Thought Reasoning and Spatio-Temporal Memory 484
Zijing Luo

Generative Deep Learning-Based Object Detection for Secure Image Processing Applications 488
Xin Huang, Hongyu Shi, Ruixue Yan, Ping Yang

Beauty-Naturalness Dissociation in AI-Edited Faces: An Eye-Tracking Study of Visual-Cognitive Mechanisms 492
Yi Cao, Yuting Shen, Jialin Zhou, Ying Li, Yiru Zhu

A multi-agent collaboration framework for scene understanding and work order generation in smart farms 499
Zhipeng Song, Qi Li

Application and Evaluation of a Multi-Model Assisted Human-Review Workflow for Disaster Image Annotation 503
Renjie Cao, Dezhi Wang, Wei Li, Hang Zheng, Jun Zhang

Brain-Controlled Target Speech Extraction Based on Disentanglement and Progressive Dual-Modal Fusion 508
Xilei Ling, Haixian Wang

FPGA-Based Real-Time Embedded Vision System with Gigabit Ethernet Communication 512
Yang Zhou

WJAC-Dice: Weakly Supervised Joint Atlas Construction and Registration 518
Wenjie Chen, Yelan Yu, Chuanyu Diao, Shunbo Hu

OAF-CLIP: Ordinal Attention Fusion for Fine-Grained Prior-Guided Breast Ultrasound Benign-Malignant Classification 522
Lizheng Zhai, Zongmo Huang

From Pose to Verifiable Constraints: Robust Video Assessment of Early Post-THA Sit-to-Stand 526
Sinan Chen, Shaojuan Huang, Xinyun Bai, Qiting Lin, Shuping Yu

Adaptive Frequency-Guided Fusion Mamba with Dynamic Cross-Modal Attention for Robust Infrared-Visible Object Detection 532
Qi Yang

TcNc: Token comparison and noise correction for Weakly-Supervised Semantic Segmentation 540
Weijie Su

Lightweight YOLOv5 with Wavelet Convolution and Attention for Waste Detection 545
Shunjie Wang, Zhengju Chen

SFGANet: Smoke and Flame Global Aggregation Network 549
Yuhao Wang, Bingbing Qiao, Guojun Xie

Radar Radiation Source Sorting Based on Spatio-Temporal Graph Neural Network 553
Fuqun Zhang, Zhengjie Fan, Mingyue Feng, Yinan Zhang, Zhihao Xu

A Systematic Study of CSI Fingerprint Feature Representations and Deep Learning Models for Indoor Localization 558
Jiajian Qin, Xuanzhen Xia, Hang Li

Lightweight Neural Network Implementation for Vehicle Detection 564
Haitao Lv, Dejun Yin

A Comparative Study of Gaussian-Based Surface Reconstruction Under Different Scene Conditions 568
Ziming Fu

YOLO-MSFF: An Improved YOLO11-Based Multispectral Feature Fusion Method for Object Detection 574
Changxin Guo, Ting Zhao, Zhaoxia Zhang

Question-Answering Guided Cross-Modal Ancient Seal Recognition 584
Yuanlin Shi, Tianquan Wu, Kaili Wang

Research on Real-Time Speech Recognition Model for Aircraft Cockpit Audio 590
Lihui Wang, Haihua Huang, Yan Ji

Research on Brain Tumor Detection System on FA-YOLO Model 596
Mingchang Huang, Binnan Yan, Ziwen Xiong, Yichenghan Hu

Research on Roof Crack Detection under Complex Illumination and Water Accumulation Interference 600
Ruiheng Li, Zhihao Quan, Yi Di, Binghua Shi, Xiao Yang, Wanyu Qiu

Classroom Behavior Detection Method Based on KMU-YOLO11n 605
Jiahao Chen

Wheat Head Detection: A Deformable Attention-Enhanced Cross-Scale Dynamic Fusion YOLOv8 Approach 609
Yuhuan Zhou, Yongqiang Tan, Qiang Fu

Multi-label classification of medical images based on multi-scale feature fusion 614
Shuye Wang

A Lightweight Face Detection Framework Based on ShuffleNet and Coordinate Attention 621
Jiayu Zhao, Chengming Zhou, Haoyi Xie, Changlin Li, Tongtong Wan, Lifu Cao, Yifan Jiang Chaomeng Hao

Sparse Multiscale Transformer-Based Target Detection for Autonomous Driving 625
Kechong Ren, Li Gao, Qi Guan, Rongsong Yue

A Rotated Object Detection Method for Campus Cracks in Complex Scenes 629
Ruiheng Li, Wangwang Xu, Yi Di, Binghua Shi, Xiao Yang, Wanyu Qiu

Robust Image Denoising: A Method Based on Multi-Scale Local Adaptive Hybrid Iterative Bilateral Filtering 634
Qiang Fu, Yuhuan Zhou, Yongqiang Tan

SAR Image Change Detection Based on Saliency Guidance and Edge Enhancement 639
Shuanghui Wang, Zhihui Xin, Jianxiang Zeng, Runze Song

GMS-Net: Global Mamba and Multi-Scale Convolution-Based Medical Image Segmentation Network 643
Dengdi Sun, Longlong Liu, Shiwei Zhou, Bin Luo

Deep Learning-Based Signal Disentanglement for Surface Acoustic Wave Passive Wireless Sensing Under Strong Interference 647
Meixin Chen, Hao Jin, Ao Ming, Xiaoliang Wang

MOH-Transformer: track association with hierarchical attention 652
Jie Shen, Kaicheng Fu, Jinli Meng

Response Analysis of the Darlington Transistor Amplification Mode under Transient Electrical Stress 657
Changjun Li, Jinjun Cheng, Xiaoxu Chu, Haizhen Zhu, Bincheng Wen, Fawen Xu

DiffuCL: Diffusion-based Reconstruction with Contrastive Learning for Incomplete Multimodal Sentiment Analysis 662
Mingyang Ye

A Narrowband Digital Costas Loop Applied to Semi-blind Signal Recover 667
Zhi Liang, Binbin Chen, Muye Jing, Tao Liu, Hongyan Jiang, Shuaiqiang Li

Path Loss Prediction for Maritime Tropospheric Scatter Based on CNN-MLP 671
Hengzhi Liu, Kunlei Du

A CNN-based Path Loss Prediction Scheme Assisted by Satellite Imagery 675
Kunlei Du, Hengzhi Liu

Improved RRT-Connect Path Planning Algorithm for Robotic Arm 679
Yubo Wan, Guowei Zhang, Mingxuan Lu, Zhongcheng Pu

Joint Source-Channel Coding and Decoding Based on Channel Modulation Network 684
Ping Ma

AQUO Feature-Driven Machine Learning Prediction for Far-Field Ship Radiated Noise 688
Wenlong Yan, Yao Sun

Agent Evolution: Capability-Mechanism Co-evolution 693
Yifei Chen, Chi Zhang, Xinshuo Zheng, Shuai Tang

Code-Collaborative Intelligent Query Generation Technology for Complex Relational Data 702
Chanjuan Tang, Zhongtian Lu, Xinqi Wang, Zhengtao Wang, Guanying Li

PRISM: Pipeline for Root-cause Investigation via Specialized Multi-agents 709
Weiran Yan, Yichao Wu, Penghao Liang, Mengwei Yuan, Jianan Liu, Jing Yang, Xianyou Li

GtDou: Using Transformer and opponent's hand card guessing model to enhance the Agent of DouDizhu 713
Lingjian Kong

Exp-ToolPlan: Contrastive Experience Learning for Similar Tool Selection 717
Yuhua Cheng, Mengyao Yan, Zheng Wan

Construction and Application of an Agent-Driven Active Learning Ecosystem under Human-AI Collaboration 723
Wei Nie, Zhanjiang Yuan, Jianhua Hu, Wen Ha, Xiangfei Feng, Qixiang Zhang, Renzhi Wang, Juxiu Zhu Wenjing Li

Drift-Aware Agentic ETL for Schema-Evolving Data Lakes 728
Weican Wang, Ye Zhang, Zichen Pan, Ziruo Ke, Yilin Sun, Yun Yang

EAG-SR: Entity Association-Guided Self-Reflection for Document-Level Enterprise Relation Extraction 734
Xiangfeng Luo, Mengyu Han

Learning Multi-Agent Cooperation Via Future Observations Guided Communication Graph 738
Kangrui Ren, Zhencun Jiang, Jinfu Fan, Zhongjie Wang

Dynamic Grounding Coordination for Sim-to-Real Transfer in Multi-Agent Traffic Control 745
Wang Qiang

AI-Enabled Vocabulary Learning with Adaptive Scheduling and Chatbot Practice: toward Lexical Network Aware Modeling 749
Jiaze Dai

A Multi-modal Imbalance-Aware Method for Microservice Anomaly Detection 754
Yumiao Tao

From Activation to Semantics: Explaining Neurons through Their Contributions to Model Outputs 758
Yuan Sun, Fengsheng Li

Stochastic Dynamics of Human-Bot Interactions on Social Platforms: A Three-Population SDE Model 764
Zihan Sha, Wenhao Cui

Multi-Agent Reinforcement Learning for Joint Service Caching and Task Offloading in Ultra-Dense MEC Networks 770
Haiwen Xu

SPCL: Semantic Prototype Contrastive Learning for Incomplete Multimodal Sentiment Analysis 777
Tiantian Zhang, JiaQi Zhao, Qianwen Han, Fuying Zhao, Zexi Zhang, Xueyuan Cai

Static Label Graph Augmented Multi-modal Multi-label Tabular Classification Method 782
Tianxi Chen, Bo Liu, Yunfei Zhao, Yuanyuan Cai

Long-tail multi-class counterfactual explanation 786
Shiji Chen

Cyclic Interference Alignment with Equal-Length Messages for Two-User X Channels with Non-Integer Propagation Delays 790
Hao Chen, Feng Liu, Jun Gao

Active Semi-supervised Evidential Clustering with Uncertainty-guided Query Strategy 795
Zhuobin Hao, Fengqing Tang, Yanshuang Feng, Lipeng Pan

RBTGA: A Multi-Strategy Collaborative Enhancement BERT-LSTM Model for Hotel Service Review Analysis 799
Hanxuan Chen

KDES: A Knowledge-Driven Evolutionary Strategy for Solving VRPTW 806
Lei Li, Yue Chen, Shuqin Cao, Jianfeng Lu

Interpretable Neural Network Modeling of Hub Coverage Performance in Road Networks 811
Deyang Kong, Ning Guo

Research on performance optimization of parallel computing system based on big data technology 818
Qingyang Wang, Jiamei Zhu

UAdapt: Uncertainty-Aware Adaptive Graph Node Classification 822
Dengdi Sun, Yuxuan Han, Zhuanlian Ding, Bin Luo

Proximal policy optimization-based vegetation evolution for coverage optimization in wireless sensor network 829
Xinyue Jia, Minghua Wang

Research on Genetic Algorithm Optimization for Job-shop Scheduling Problem 834
Jie Lv, Zewen Lai, Yuanjia Zhang

ENAS-CoAtNet: Neural Architecture Search for sEMG-Based Fatigue Detection with Convolution Attention Networks 839
Xin Li, Wenlong Liu

PI-Embedding: Scientific Idea Representation Learning via Citation Intent and Paper Provenance 843
Changlu Wang, Zhenan Sun

An adaptive differential evolution algorithm with a multi-probability selection mechanism guiding individual selection 849
Xiaoyu Song, Zhiyang Yuan, Ming Zhao

GNN-Assisted Multi-Agent Reinforcement Learning for Dynamic Topology Optimization in Low-Altitude UAV Communication Networks 854
Chen Pan

Dynamic Energy-Aware Power Allocation for Life-time Maximization in UAV Networks 858
Yang Yu, Yinchao Ge, Jia Chen, Benjun Liu

A Lightweight Artificial Intelligence Method for Official Document Process Automation 863
Rongsong Li, Wen Gu

Dynamic Graph Transformer with Adaptive Attention for Multi-UAV Path Planning in Uncertain Environments 870
Yongqiang Tan, Qiang Fu, Yuhuan Zhou

Identification of Inconsistent Recommendations Based on Feature Matching and Screening of Recommendation Opinions 875
Lei Kang, Jinguang Gu, Yinghui Jin, Yongbo Wang, Feng Gao

Application Research of Machine Learning and Deep Learning 880
Yinshan Jiang