2025 IEEE International Conference on Computer Engineering and Artificial Intelligence

IEEE ICCEAI 2025

Conference Program

International Academic Exchange Center, Tiangong University

October 24-26, 2025, Tianjin, China

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Message from the ICCEAI 2025 General Chairs

2025 IEEE International Conference on Computer Engineering and Artificial Intelligence (ICCEAI 2025) aims at providing a high-level platform for experts, scholars, innovators and practitioners to share novel research and ideas in the fields of Computer Engineering and Artificial Intelligence. The conference plans to be held in Tianjin, China, from October 24 to 26, 2025. ICCEAI 2025 features Keynote Speeches from eminent professors all over the world and technical presentation from participants in different parts of world. All the program will cover a wide range of topics to cater to the needs of specific subject areas for researchers as well as faculty members.

ICCEAI 2025 this year is sponsored by Tiangong University, China, co-sponsored by IEEE China Council, Shijiazhuang Tiedao University, China, patrons are Tianjin University of Science and Technology, China, Tianjin University of Technology, China, Tianjin Normal University, China.

We would like to express our sincere thanks to the Program Chairs: Prof. Haifeng Li, (Civil Aviation University of China, China), Prof. Pan Lin (Hunan Normal University, China), Prof. Yongzhen Ke (Tiangong University, China), all program committee members and all the additional reviewers for their valuable efforts in the review process, which helped us to guarantee the highest quality of the selected papers for the conference.

We cordially thank all the authors for their valuable contributions and the other participants of this conference. The conference would not have been possible without their support. Thanks are also due to the many experts who contributed to making the event a success.

Prof. Yong Yang, Tiangong University, China
Prof. Zhijun Fang, Donghua University, China
Prof. Xiankun Zhang, Tianjin University of Science and Technology, China
Prof. Zan Gao, Tianjin University of Technology, China
Prof. Huiyu Zhou, University of Leicester, UK
ICCEAI 2025 General Conference Chairs

Message from the ICCEAI 2025 Program Chairs

Welcome to the 2025 IEEE International Conference on Computer Engineering and Artificial Intelligence (ICCEAI 2025), will be held from October 24-26, 2025, in Tianjin, China. ICCEAI 2025 will be the most comprehensive conference focused on the Computer Engineering and Artificial Intelligence. ICCEAI 2025 will provide an opportunity for academic and industry professionals to discuss recent progress in the area of Computer Engineering and Artificial Intelligence. In addition, the conference will publish high quality papers which are closely related to the various theories and practical applications on Computer Engineering and Artificial Intelligence. Furthermore, we expect that the conference and its publications will be a trigger for further related research and technology improvements in these important subjects.

For ICCEAI 2025, we received many paper submissions, after a rigorous peer review process, only very outstanding paper can be accepted for the ICCEAI 2025 proceedings, published by the IEEE. All submitted papers have undergone blind reviews by at least 2-3 reviewers from the technical program committee, which consists of leading researchers around the globe. Without their hard work, achieving such a high-quality proceeding would not have been possible. We take this opportunity to thank them for their great support and cooperation. We also would like to thank all of you for your participation in our conference, and also thank all the authors, reviewers, and organizing committee members.

Thank you and enjoy the conference!

Prof. Haifeng Li, Civil Aviation University of China, China
Prof. Pan Lin, Hunan Normal University, China
Prof. Yongzhen Ke, Tiangong University, China
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Jianjun Wang, Southwest University, China
Jianzheng Liu, Tianjin University of Science and Technology, China
Ji-Hoon Jeong, Korea University, South Korea

DeepSeek Artificial Intelligence Large Model and Applications

Prof. Jucheng Yang
Guangxi Academy of Artificial Intelligence, Guilin University of Electronic and Technology, China

Abstract:
The topic presents the transformative power of artificial intelligence large models and their vast applications. We will journey from the evolution of AI into its current, third generation—a powerful synergy of knowledge and data—to the core of our discussion: the rise of large language models, defined by their unprecedented scale and capability. The presentation will provide a landscape of leading global and domestic models, including the cost-effective, high-performance DeepSeek series, and then delve into their revolutionary impact across industries, from automated customer service and intelligent healthcare to personalized education and beyond. We will conclude by looking ahead at future trends toward more robust, scalable, and trustworthy AI, framing large models as the cornerstone of next-generation technological innovation.

Short Bio:

Jucheng Yang is a professor with the School of Computer Science and Information Security, Guilin University of Electronic and Technology, and is the dean of Guangxi Academy of Artificial Intelligence. His research interests include image processing and pattern recognition, artificial intelligence, computer science, and smart agriculture. He was the editor or reviewer for international journals, such as IEEE Transactions on Information Forensics and Security and IEEE Transactions on Industrial Informatics.

Eco-Innovation and Smart Technologies

Prof. Syed Abdul Rehman Khan, PhD
School of Engineering and Management, Xuzhou University of Technology

Abstract:
Recently, there has been an unprecedented rise in global environmental degradation, prompting practitioners, researchers, and policymakers to adopt smart technologies to achieve sustainable outcomes. The empirical findings provide valuable insights for researchers, policymakers, and managers in developing strategies, policies, procedures, and business models that promote sustainable development.
These findings contribute to the rapid advancement of organizations, enabling them to improve their operations by integrating digital technologies with environmental protection policies, ultimately leading to sustainability. Overall, the study offers important insights for firms to enhance their efficiency through digital technologies while ensuring environmental sustainability.

Short Bio:

Meet Syed, a distinguished research scholar specializing in digital technologies for sustainability and green management. He currently serves as Full Professor at Xuzhou University of Technology. Syed has been honored three times with the prestigious title of World Top 2% Highly Cited Researcher.

With an impressive portfolio of nearly 200 high-level academic papers and seven published academic books on smart technologies in sustainable business operations, Syed has led several research funding projects. He is also a sought-after keynote speaker, invited speaker, and conference chair at over 50 international academic conferences. Syed's expertise and influence in the field are unparalleled.

Integrated analysis of whole-body PET/CT image

Prof. Tao Sun
Shenzhen Institute of Advanced Technology, Chinese Academy of Sciences

Abstract:
The invention of total-body PET is a significant milestone in the field of nuclear medicine. Due to their ultra-high sensitivity and extensive coverage, these systems make it possible to reveal dynamic physiological changes throughout the entire body for the first time. However, to promote this cutting-edge technology more widely, we must overcome the obstacles it faces in existing clinical applications. In this presentation, I will first introduce how to address the technical challenges of total-body PET faced by our clinical partners. Subsequently, I will share some of our ongoing efforts specifically focused on performing integrated analysis of whole-body PET/CT images and applying them in accurate cancer diagnosis and prognosis.

Short Bio:

Dr. Tao Sun's primary research focuses on innovations in PET/CT and PET/MR imaging methods, particularly in improving quantitative accuracy, optimizing scanning protocols, and enhancing differential diagnosis. His work has been successfully applied in multiple clinical scenarios and has been cited by the industry on several occasions. He has published 26 papers as first or corresponding authors in international journals such as European Journal of Nuclear Medicine and Molecular Imaging, IEEE Transactions on Medical Imaging, Cerebral Cortex, Cancer Imaging. He currently serves as Associate Editor of Physical and Engineering Sciences in Medicine and is a youth editorial board member of iRadiology and Phenomics. His achievements have earned him recognitions such as the SNMMI “Ones to Watch” and the First Prize of the Henan Provincial Science and Technology Progress Award. His supervised master’s students received honors including the CASNMMI Young Investigator Award and the Best Abstract Award at the National PET/MR Conference.

Conference Schedule

Date	Time	Main Meeting Room (First floor)	International Academic Exchange Center (Third floor)
2025-10-24	09:00-20:00		Registration
	18:30-20:00		Dinner
2025-10-25	09:00-09:15	Opening Remarks	
	09:15-09:25	Take Photos	
	09:25-10:10	Keynote by Prof. Jucheng Yang	
	10:10-10:30	Coffee break	
	10:30-11:15	Keynote by Prof. Syed Abdul Rehman Khan	
	11:15-12:00	Keynote by Prof. Tao Sun	
	12:00-13:00		Lunch
	13:00-15:00	Oral Session A	
	15:00-15:20	Coffee break	
	15:20-17:40	Oral Session B	
	18:00-19:00		Dinner
2025-10-26	08:00-10:00	Oral Session C	
	10:00-10:20	Coffee break	
	10:20-12:20	Oral Session D	
	12:20-13:00		Lunch
	13:00-15:00	Oral Session E	
	15:00-15:20	Coffee break	
	15:20-17:40	Oral Session F	
	18:00-19:00		Dinner

Instructions for Presentations

Oral Presentation

Devices Provided by the Conference:

Laptops (with MS-Office & Adobe Reader)

Projectors & Screen

Materials Provided by the Presenters:

PowerPoint or PDF files

Regular Oral Session: about 15 Minutes of Presentation, 5 Minutes of Q&A

Keynote Speech: 40 Minutes of Presentation, 5 Minutes of Q&A

Poster Session

Poster Session at the Other Side of the Main Meeting Room. The time at October 25 (13:00-17:40) and October 26 (08:00-17:40)

Devices Provided by the Conference:

Space and Sellotape

Materials Provided by the Presenters:

90cm(h) × 60cm(b) poster

October 24, 2025
Registration 09:00-20:00
Sign in and pick up materials: Name Badge | Program | Meal Vouchers | Souvenir | Gift

18:30-20:00 Dinner

October 25, 2025
09:00-09:25 Opening Remarks and Take Photos

09:25-10:10 Keynote 1
Title: DeepSeek Artificial Intelligence Large Model and Applications
Prof. Jucheng Yang

10:10-10:30 Coffee break

10:30-11:15 Keynote 2
Title: Eco-Innovation and Smart Technologies
Prof. Syed Abdul Rehman Khan

11:15-12:00 Keynote 3
Title: Integrated analysis of whole-body PET/CT image
Prof. Tao Sun

12:00-13:00 Lunch

13:00-15:00 Oral Session A
Session Chair: Wenhao Guo, Pipechina Institute of Science & Technology

Yujiao Chai, Xiaomin Yao, Long Li, Zenglin Sun, Yuhang Zhao, Zishan Luo, Sirui Shan	*DWPS-YOLO: Insulator Defect Detection Based on an Improved YOLO Network*
Huimin Lu, Dan Zhao, Yundong Han, Lihua Zhang	*Thickness estimation of marine oil spill by band selection from statistical analysis*
Peng Zhang, Yu Yan, Shuai Li, Binxia Xue	*Optimization of An Evolutionary Measure for Image Computing in Aesthetic Similarity*
Lingmei Nie, Yujie Zhang, Xin Tang, Chao Qian, Bin Ji, and Yu Zou	*An adaptive online spatio-temporal synchronization method for radar and camera*
Zhigang Zhang; Mengxin Liu; Tao Zhang	*An Improved Detection Method of Sports Table Tennis Based on YOLOv8n*
Bin Zhang, Xuedong Chen, Xinyi Lu, Jiancheng Xu, Yuping Zhao, Yiying Wang, Guan Liu, Ruiquan Jiang, Xianfeng Huang	*Causal Discovery and Root Cause Analysis of Time Series Based on Diffusion Models*

15:00-15:20 Coffee break

15:20-17:40 Oral Session B
Session Chair: Wenhao Guo, Pipechina Institute of Science & Technology

Ye Jiabei, Feng Guangyu	*The Impact of AI Algorithm Bias on the Spread of Intangible Cultural Heritage*
Xiumei Zheng, Fanyu Liu	*Mapping the Evolution of Technological Topics in Civil Unmanned Aerial Vehicle*
Jiapeng Liu, Kuo Chi, Ting Su, ongqin Yang, Duofeng Wu	*A hybrid network adaptive path switching mechanism based on tunnel models*
Yu Tang, Zhuo Yang, Tao Zhang, Chunhua Liu	*Hydrogen Sulfide Modulates the Neural Oscillation Patterns via Increasing the Level of Glutamate in Adult Rat Hippocampus*
Wei Li, Yinlong Zhang, Zhiyong Guo, Xuhao Wang, Mengli Wu	*Surface Defect Detection of Aeronautical Blades Using a Defect-Aware Enhanced ICP Algorithm*
Zhiyong Guo, Haonan Feng, Jiaxu Meng, Pengchao Zhao, Yiran Cao	*Traffic Sign Detection with Improved YOLO11n Algorithm in Virtual Simulation Scenarios*
Jiafeng Zhao, Kuo Chi, Ting Su, Yongqin Yang	*A Fake News Detection Approach Based on Semantic Graph Similarity*

18:00-19:00 Dinner

October 26, 2025

08:00-10:00 Oral Session C

Session Chair: Jie Yang, Tiangong University, China

Shaobo Jin, Shun Guo, Xianyang Hui, Guoyong Ye, Ruanye Zhang, Pengcheng Zhang	*A real-time monitoring and measurement system for droplet morphology based on machine vision*
Kunxiang Gou, Junjie Song, Kai Feng, Zheqian Wu, Pei Yin, Lihua Dai	*Sepsis Volume Management and Cardiac Function Risk Prediction A POMDP-Based Dynamic Early Warning Model*
Xuejingyu Hou, Yunlong Feng, Xianghai Wang, Chuanming Song	*Oracle Bone Rejoining Using Curvature and Concavity-Convexity Driven Curve Matching*
Wenhao Guo, Wu Ren, Ke Zhang, Yongjun Cai	*SEMP: A Strategy-Enriched Few-Shot Model for Pipeline Incident Identification*
Bing Bai, Hongjian Ni, Xian Shi	*Numerical Simulation of Fracture Propagation in A Fractured Shale Reservoir Based on THMD Coupling Model*
Ekaterina Proshina, Rupali Bhardwaj, Ilya Micheev, Olga Martynova,	*Machine Learning Classification of EEG Patterns During Antisaccade Task for OCD Diagnosis*

10:00-10:20 Coffee break

10:20-12:20 Oral Session D

Session Chair: Jie Yang, Tiangong University, China

Zhihong Liu, Yaxuan Chen, Lin Liu, Liqiong Lei	*Virtual Influencers in Cultural and Tourism Marketing: A Systematic Review and Integrated Framework*
Gengyao Tong, Jie Su	*Comparison of LSTM and ARIMA-LSTM Models in Stock Price Forecasting*
Ruohua Jin, Hongtao Chen, Honghao Zhang	*Threat Intelligence Analysis Based on Knowledge Graph-enhanced Large Language Model*

Hongtao Chen, Wanqi Liu	*Malicious Webpage Recognition Based On Undersampling And Multi-layer Ensemble Learning*
Yin Chang, Wu Yuhan, Pan Ming	*A credit evaluation method for SMEs based on large and small language model collaboration*
Rui Zhang, Bo Zhang, Xinyan Fan	*A causal forest model based on robust T-type estimation and its application*

12:20-13:00 Lunch

13:00-15:00 Oral Session E

Session Chair: Song Tong, Beijing Normal University, Beijing, China

JieWei Zhao, ChenXuan Jin, XiaoTong Zhao, Xiang Yu Meng	*From Technology to Art: How AI Speech Awakens the Aesthetic Dimensions of Cross-Linguistic Vocal Learning*
Shi-Li Pang, Chao Lang	*Deep Neural Networks Preconditioned Solvers for Frequency-Domain Wave Equation Computation*
Yong Zhang, Qian-kun Luo, Yong-jian Gu, Lei Ma	*A Novel Improved MMulti-Objective Fast HarmonySearch Algorithm for Groundwater RemediationSystem Optimization*
Xiao Wang	*Wood Defects Recognition Based on CNN with Adaptive Non-linearity Activation Function*
Jin Hua, Xinlong Ji	*Viewpoint Planning Based on Greedy Coverage Algorithm for Turbine Blade Inspection*
Mingye Zhang, Hongqi Hui	*Research on Carbon Emission Efficiency and Driving Factors in the Manufacturing Industry of Hebei Province*

15:00-15:20 Coffee break

15:20-17:40 Oral Session F

Session Chair: Song Tong, Beijing Normal University, Beijing, China

Hongshan Zhuang, Xingang Wang, Guixing Yang, Jin Yu	*An Optimization Method for Configuring Grid- Following and Grid-Forming Wind Turbines in Wind Farms Considering Coupling Effects*
Jiyuan Dong, Ce Liu, Yaoxian Yang, Xuan Xiao, Shangyan Jiang, Xiaohong Huang, Jing Tang	*A Direct Drive Coaxial Force-Controlled Deformable Hybrid Mobile Robot*
Guixing Yang, Xingang Wang, in Yu, Yue Gao	*Research of Grid Connection Control Strategy for High-Power Grid-Forming PMSG Wind Turbine*
Hao Zhang, Chong Wei, Teng Lu, Yilin Ma, Wenhui Chen, Qianying Sun, Xuan Xiao, Lianzhi Qi	*Design and Experimental Validation of an Aerial Manipulator System for Vertical and Lateral Force-Interaction Tasks*
Zefeng Li, Muyang Li, Yulin Liu, Chenfang Peng, Deyu Tong, Yu Liu	*Life-Cycle Economic Benefit Analysis of Pumped Storage Power Plants in a Market Environment*
Hongyi Li, Ming Xiong, Qiaojie Zhang, Kelin Lv, Yuxin Liu	*Improved Multi-Scale Object Detection Algorithm Based on YOLOv11*
Zefeng Li, Muyang Li, Yulin Liu, Deyu Tong, Chenfang Peng	*Analysis of Joint Clearing and Pricing Mechanisms in Electricity Markets Considering Operational Constraints of Multi-Type Generating Units*

18:00-19:00 Dinner

Poster Session

October 25, 2025 (13:20-17:40) Poster Session A	
Curriculum Reform and Practice of Computer Majors Based on OBE Concept	Zhou Yuan, Miao YaoFeng
Detection of binary neutron star gravitational wave using time-frequency domain deep learning	Xinyao Yu,Yibin Xie,Tanming Dai,Cunliang Ma
Design and Application of a Data-Driven Adaptive Early Warning and Comprehensive Equipment Evaluation Model	Guihua Zhang, Huaifeng Wen, Haodong Zhang
Development of a Multi-Degree-of-Freedom Robotic Arm-Based Precision Feeding System for Rabbit Farming	Wei Jiang, Hongming Tang, Hongying Wang
Adaptive Fuzzy Neural Sliding Mode Variable Structure Control for Multi Degree of Freedom Robots Based on Switching Gain	Feng Jun, Ma Changliang
Investigation of Collaborative Multi-Tool Parameterization Architecture for Virtual Computing Platforms	Xiuyu Wang, Wan Neng, Wei Liu, Minfu Zhao
Research on general crop disease identification method based on LLM optimization reasoning	WANG Zhengjia, SUN Zhimin, Li Jie
Application of Artificial Intelligence-Based Multimodal Data Fusion in Endodontics	Qi Guo, Dongmei Guo, Yun Zhang
Three-dimensional reconstruction of landslides based on PatchMatchNet	Yingbo Wang, He Yang
A Method for Synthesizing Expert Opinions Based on Correlation Degree Weighting	Dong Xuejun, Li Lijie, Du Jianzhou
Priority Ranking Model for Space Launch Based on Hybrid Value	DONG Xuejun, LIU Huan, LIU Qiaoling, XUE Hui, ZHANG Limin
Tropical Cyclone Intensity Prediction Based on the LPTST Model	Xiaoyu Li, Zhen Wang
High-Precision Seismic Attribute Dimensionality Reduction via Dynamic Neighborhood MLLE and Heterogeneous Computing	ZHOUDAN, ZHANGKEFEI
Timing anomaly detection method of gear small samples based on LSTM-FCN	Chengshan He, Cheng Hua, Yongyong Cao
Seismic Stratum Classification in Petroleum Exploration Based on Semi-supervised Learning	Guanshi Li, Qiuyue Yu, Dandan Dong, Guohe Li, Depeng Qing, Yifeng Zheng
A Probabilistic Neural Network-Driven Approach for Structural Crack Identification in Bridge Girder Erection Machines	Wenjie Zhao, Jiujian WANG, Ruilin Ma, Liwen Yan, Xuehong REN, Shaopu YANG, Haijun XING
Balancing AI Transparency and Trade Secret Protection: A DID-Enabled Recursive AIBOM Sharing Mechanism	Xinyu Zhang, Kai Yang, Hang Dong, Peng Ran, Yijiao Jiang
The Property of Matrix Product Decomposition with Tripotent Factors	Yunjin Pan, Xinsong Yang

Designing an Integrated Early Warning and Disposal System for Water Environmental Emergencies: A Framework for Proactive Management	Juan Men, Zhiyan Zhang
Priority Method based on Extensional Least Square and Genetic Algorithm for Group Decision Making	Qiuping Wang, Yanxia Wu, Mengna Wang
Direct Preference Optimization on ChatGLM in Chain-of-Thought Reasoning	Dan Yang, Hang Yang, Zhengguo Wu, Yulong Yang, Yuan Jiang, Chuanghua Yang
Recursive Maximum Mixture Correntropy-based Evolving Fuzzy System Against Non-Gaussian Noise	Hui Huang, Weidong Yang, Jingyi Xu, Xiangyang Li, Jiqiang Wang
ADAPT-Agent: Recursive Task Decomposition and On-Demand Planning for Complex Language Agent Tasks	Xiaolong Wang,Qianjun Wu,Zhonghua Si,Shanxiong Chen,Guang Long,Jiahao Zhang
Research on GNN-Prompted LLMs for Blockchain Smart Contract Defects Based on Classified Protection	Yuan Tao, Sheng Wang, Cheng Liang
Performance Prediction and Influencing Factors Analysis of Electrical Insulation Devices in Oil Pipelines Based on XGBoost-SHAP	Lv Qian, Li Lin, Zhao Zixuan, Sun Zhenxiang
The influence of social factors on the Color System of Song Dynasty Court Women's Clothing	Liu Xuan, Li Ling
Erosion simulation during flow splitter blowout based on Fluent	Miao Dianyuan, Zhang Shuai, Li Xiaogang, Luo Yuan, Zhang Tuozheng
UMDT: Unified Multiscale Detection Transformer	Biyang Xin, Yihong Zhang
Blockchain-Based Supervision Framework for Edible Oil Transportation	Jinglong Xie, Chuanyin Wan, Yingjie Chen, Tianle Jiang
Innovation Practice and Path Exploration of Power Material Management Based on Green Modern Digital and Intelligent Supply Chain	Ye Zhou, Dapeng Qu, Zhiying Li, Chao Zhou, Qichong Li
Multi-View Generalization for Small Object Detection in Aerial Imagery	Wenshuo Li, Yongze Liu, Duxing Yang, Xueyu Yuan, ZhengYou Wang
Multi-label protein subcellular localization prediction method based on multi-task learning and cross-attention mechanism	Guochang Wang, Yi Cao
Fusion of Data Augmentation and Multi-granularity Features for Unsupervised Person Re-identification	Yingying YANG, Jin CHE, Long XIAO, Liqiong JIAN
Optimizing carbon emission prediction using a hybrid PSO-MERF: Insight from economic complexity and Renewable energy dynamics	Edwin Twum Ayimadu, Yaolin Liu, Gloria Vera Hawa Koroma, Farouk Abass, Asante Isaac Osei, Donatus Dunee
A Dual-Model Driven Approach for Intelligent Comparison of Aeronautical Navigation Data	Ailin Zhou, Chao Duan, Yebin Jin, Sizhuo Li
Gene-Inspired Multi-Stage Encoding for Controllable Image Generation	Zhuo Zhou, Huan Wang
The Impact of Generative Artificial Intelligence on Employment Perceptions Among Youth in Hangzhou: An Empirical Study	Rongrong Hu, Yingxin Zhang, Jia Liu, Kexin,Yang, Jinghua Yin

A Partial-Adaptive Fractional-Order Model for Lithium Titanate Battery under Low-Temperature Conditions: Model Development and Validation	Sidi Dong, Xuexia Zhang, Wei Ding, Lei Huang
Automatic Self-Locating Perforating Tools with Neural Networks	S. Y. Xiao, J. Y. Zhu, Y. Q. Chen, J. J. Wang, K. Tang, G. H. Ren, S. Liu, Y. Liu
Research on the Evaluation of Feeding Intensity of aquaculture Anguilla rostrata Based on MobileNet V2-CBAM Network	Xi Lin, Xinglong Jiang, Shihao Zhou, Shiyun Zhang
FOF Portfolio Allocation Using Reinforcement Learning with Time Series Clustering	Shuang Zhou, Hongyue Ding, Nifei Li
Bayesian Methods and Software for Predicting the Water Quality of a Reservoir-based Drinking Water Sources by Using Suspended Particulates	Mengshi Li, Wangwei Cai, Jiangmin Liu, Hongbo Liu, Jihong Xia
October 26, 2025 (08:30-12:20) **Poster Session B**	
Text analysis of artificial intelligence news topics based on www.gov.cn	HongJun Huang, YingJuan Liang, SenHao Wei, Fu Huang
YOLO v11-GMDA: A Hybrid Transformer-CNN Framework for Real-Time Monster Detection in Genshin Impact	Zihan Chen, Mengze Wu, Yujie Wu
Aerial Small-Object Detection for Maritime Search-and-Rescue via Selective Multi-Scale Fusion	Biyang Xin, Yihong Zhang
Caching Replacement Strategy for Delivery Delay Minimization in Cell-Free Massive MIMO Systems	Rui Wang. Yun He
FT-Transformer for Multi-task Prediction of Body Composition from Multi-frequency Bioelectrical Impedance	Yanshuo Liu, Yanying Jiang, Shan Yin, Houquan Liu, Hui Wen
Research on Evidence-Based Interventions for Internet Gaming Disorder: A Network Meta-Analysis	Shuai Sun, Haili Xu, Jian Wang
A Lightweight Certificateless Signature Scheme for the Internet of Things	Linmei Jiang
Simulation Study of Electric Tractor Drive System Based on SimulationX	Gao Huisong, Zhou Zhongxi, Xue Jinlin, Hu Lianglong
Numerical Simulation of Multiphysics-Coupled Formation Subsidence Induced by Shallow Gas Production beneath Hydrate Caprocks	Gang Tong, Jin Yang, Renjun Xie, Yiwen Yan, Yujie Cheng, Qishuai Yin, Yingjun Wang
Design of an Artificial Intelligence-Driven System for Multi-Format Conversion of Chemical Molecular Structures and SMILES Generation	Bing Ma, Wei Zhou, Lipiao Bao, Xing Lu
Application Research on Improved Genetic Algorithm in Multi-Objective Scheduling of Automobile Mixed Assembly Lines	Yutong Sun, Siqi Zhang, Zegong Zhang, Hongxue Li, Yibin Zhang, Jialin Tang, Tianyu Cui, Jingyue Song
Maneuvering Trajectory Prediction of Air Combat Target Based on MPSO-OSELM	LYU Yue, LI Shuangqing
AIoT-enabled Intelligent Perception and Dynamic Early Warning for Offline Risks Induced by Ethnic- Related Network Public Opinion	Liang Ye, Liu Kun

A PHEV energy management strategy based on torque rule dual factors and the SOC step threshold	He Jiling, Zhou Lefeng, He qiushi, Yang Hanqian
Consistency Identifier Based Settlement Data Management for New Power Systems	Wenrui Zhang, Hao Yang, Yixuan Chen, Jun Wang, Jinxiu Zhang
Application and Research of Big Data in University Computer Experiment Teaching Cente	SUN Zhi-min, WANG Zheng-jia, JIN Fangwei
An improved MULTIMOORA for multi-criterion decision making based on high-order fuzzy time series forecasting	Fan Jiang, Qian Li
A Method for Predicting Academic Rising Stars based on Scientometric Indicators and Machine Learning	Duanwu Yan, Qinrong Yang, Zhuona Zhang
Energy-Based Trajectory Tracking Control for a 3-DOF Industrial Manipulator Using Port-Hamiltonian Framework	Zhiheng LIN, Siyi PANG, Xiaoyu QIN, Weijun ZHOU
Video-based Person Re-identification Based on Feature Completion and Feature Generalization	Shanna Zhuang, Jiaxin Zhang, Yining Li, Zhengyou Wang, Junshuai Wang
Applying Machine Vision for Agricultural Equipment: A Case Study of The Cutting of Taro	Zhili Wu, Yong Huang, Yakai He, Zhilong Du
Suboptimal Control Scheme Design for Stackelberg Stochastic Games of Two Skip-Gliding Trajectories	Guowei Zhang, Qixin Jia, Boyao Yang, Yuankai Li
Probabilities of Global Reserve Currency Transfer Years Estimated Using Aitken Acceleration Additionally	Ziyan Zhang, Jun Li
Provably Secure Text Steganography Based on Chinese Large Language Model and Dynamic Adjustment Sampling	Hao Shi, Wenpu Guo, Shaoyuan Gao, Ruiyan Peng
Empirical Valuation of University Data Assets under the Big-Data Environment	Wu Qiong, Hong Xiaojuan
Stored-grain temperature forecasting with broad learning system and a stable GAN with limited data	Feiyu Lian, Yao Qin
Application of data processing and inversion technology in groundwater exploration	Fengzhe Li, Hui Long, Le Zhou, Lei Yu
Random Forest Classifier Modeling of Dynamic Spectral Features in Japanese Whispered Vowels	Meiyi Shi, Tianxiang Cao, Yanlong Zhang
CLAP-MSC: Audio–Text Retrieval with Multi-Scale Attention, Parameter-Efficient Adapters and Similarity Consistency	Xinmin Cheng, Yucheng Yuan
Post-hoc Calibration under Domain Shift: Leveraging Unlabeled Data to Estimate Temperatures	Chen-Meng Qiu, Xi Cheng, Deng-Bao Wang
MultiomicsGraph :A Heterogeneous Graph Neural Network for Survival Prediction in Pediatric Brain Cancers	Jingran Deng, Zhicheng Li, Dong Liang, Yuanshen Zhao, Jingxian Duan
Energy Efficiency Optimization in Wireless Networks Based on Graph Neural Networks	Xiaosen Shi, Tingting Lu, Liang Han
Fault Diagnosis of Reversible Pump Turbine Based on SST-PO-2DCNN	ZHAO Yifeng, XIA Xin, LI Xinyu, LI Shanshan, YU Shan

CardiacSegNet: A Deep Learning-Based 3D CNN Model for Automatic Cardiac Substructure Segmentation in Breast Cancer Radiotherapy	Wang Shijie, Li Qingxia, Fang Baoshuan, Guo Sihan, Lu Shanfu, Yan Ziye, Wang Shijie, Xu Xiaofei, Zhang Lixia, Zhou Ye, Guo Shaowei, Li Qingxia. Zhang Shuqian
Evaluation of college students moral education and construction of digital portrait paths empowered by consortium blockchain	RuiXia JIN, JiaYu GUO, QuanDang SUN, PeiZhe SONG, Hui ZHANG
Research on Transformer Residual Magnetism Elimination Technology Based on the Adaptive DC Attenuation Method	Peng Naiyong, Sun Zhenxing, Zhai Xuesong, Ma Tao
October 26, 2025 (13:40-17:40) **Poster Session C**	
Research on Detection Method of Hollow in Building Floor Finish Based on MFCC and AFW_RF	Changjian Zhu, Shaowen Du, Hongfeng Ma, Chenghui Qian
Two-dimensional Transient electromagnetic databased on supervised descent method	Xing Fu,Changan Guo, Chutong Chen,Lingxiao, Hongying An
Spatial-Frequency Prompt Network with Residual-Phase Frequency Extractor and Modality-Adaptive Fusion for Robust RGB-T Tracking	Wenjuan Li, Jiong Zhao, Peng Zhang, Juanjuan Li
Research on Vortex-Parametric Coupled Vibration of Deepwater Dry Tree Cylindrical Platform Drilling Riser System	Hao Zehua, Liu Hongyue, Yin Qishuai, Li Mengshu
Group Behavior Recognition Based On Multi-scale Dynamic Spatiotemporal Graph Convolutional Reasoning	Shuogen Wang, Zhengyou Wang, Renfei Wang, Jiacong Song, Shanna Zhuang, Jing Bai, Congcong Li
aPromptEDR: Prompt-Guided Editing and Distillation-Refined Perceptual Image Restoration	Chaosheng Yao, Lei Cui, Zheheng Liang, Wuqiang Shen, Guiquan Shen, Lanlan Wang
Spatial Gait Feature Extraction Method Based on Dual-Stream Architecture	Shanna Zhuang, Ziying Su, Chengyu Du, Zhengyou Wang
Calibration-free Multi-Camera Multi-Object Tracking based Target-Guided Spatial Perception	Caizhi Gu, Congcong Li, Zhengyou Wang, Shanna Zhuang, Jing Bai
RFADM: A Novel Model for Anomaly Detection in Mining Hoist Wire Ropes	Zhengyang Chen, Zhengyou Wang, Xiaoyu Han
MSFF: Multi-Scale Feature Fusion Network For Pedestrian Attribute Recognition	Shanna Zhuang, Zhidong Chai, Xi Chen, Zhengyou Wang
Automatic Reading Method Of Pointer Instrument Based On Improved U-Net Semantic Segmentation Network	Jiong Yang, Zhengyou Wang, Kang Gao, Shanna Zhuang, Jing Bai, Congcong Li
Graph Convolution Time Feature Extraction Based On Multi-branch Time And Adjacent Frame Features	Yinuo Zhang, Zhengyou Wang, Yaqian Hao, Shanna Zhuang, Jing Bai, Congcong Li
Performance Analysis of RIS-Assisted Two-Way Communication in Rician Fading Channels	Wenrui Yang, Baorong Yang, Liang Han
Toxin Protein Prediction in Cnidarians Using AI	Hasan Zulfiqar, Ramala Masood Ahmad
A Method for Nowcasting Precipitation Radar Echo Extrapolation Based on Artificial Intelligence Algorithms	Zhen Wang, Xiaoyu Li

A Feature Fusion Network with Multiple Scales for Crowd Counting	Chaoxi Su, Jing Bai, Mingyue Guo, Congcong Li, Zhengyou Wang, Shanna Zhuang
A Dynamic Multi-Component Potential Field Model: Vessel Traffic Flow Prediction for Offshore Engineering Waters	Weizheng Wang, Zeyuan Wang, Kai Cheng, Zuopeng Niu, Zhengwei He
A Rotated Object Detection Method with Joint Multi-Scale and Multi-Task Feature Alignment for UAV Images	Jing Bai, Jiaqing Gao, Haiyang Hu, Zhengyou Wang, Shanna Zhuang, Congcong Li
Efficient Multi-Class Brain Tumor MRI Classification Using Xception with Depthwise Separable Convolutions	Selorm Adablanu
Video-Based Clothes-Changing Person Re-Identification: A Comprehensive Survey	Shanna Zhuang, Yining Li, Jiaxin Zhang, Zhengyou Wang
Reconstruction of Pan-Arctic sea ice thickness based on spatiotemporal multiscale deep learning	Qingyu Zheng, Qi Shao, Wei Li, Guijun Han, Hong Li, Xuan Wang
River Data Preservation via Differential Privacy	Zhoukai Pan, Lin Guo, Haobo Wang, Jinping Xie, Bochuan Zhang, Xiangwen Xue, Miaomiao Wang, Yude Bai
Accident Tree and Bayesian Network-Based Root Cause Analysis and Early Warning for Gas Explosions	Mingjian Li, Guowen Tan, Yuanhang Zhong, Yibing Zhao,Mingjian Li
Energy consumption optimization scheme for cache-assisted Cell-Free massive MIMO systems	Rui Wang. Yun He, Ting Deng
Enhanced TransUNet with CAA Module and EUCB Decoder for Medical Image Segmentation	HaiPing Zheng, JiaHua Wu, DaHan Wang, Ying Zhong, Kai Bo Zhang
Research on Modeling Application of Artificial Intelligence in Classroom	Yueyue Yu, Jie Huang
Driving Sustainable Energy Transition: The Role of Bijie City’s New Comprehensive Energy Base in China’s Dual-Carbon Framework	SUN Zhi-min, WANG Zheng-jia, JIN Fangwei
Oracle Bone Inscription Radical Detection Network (ORDN)	Wenqian Zhu, Junya Liu, Qingju Jiao, Zhen Yang
A Data Liquidity Pool Trading Method for Homogeneous Irregular Datasets	Mengyang Li, Chen Zhan, Shichong Wang, Huayou Si
Research on scoring algorithm and large model application of player's swing motion in tennis training scene	Shengkang Hu, Yuqi Lai, Zhen Yang, Wei Tu
Study on Anti-Multipath Interference of Fixed-Wing UAV Data Link Based on SC-FDE	Na LI, Lei gang HU, Ming ming GUO, Xiao na GUO
Robot-Assisted In Situ Bioprinting Based on Optical Navigation and Multi-Modal Image Processing	Shuoyu Ji, Zitong Wang, Anning Su, Jinwu Wang
Harnessing Large Language Model for Daily Emotional Awareness and Regulation	Yang Ma, Yang Ni, Chenchen Huang, Haoyu Wang, Kaiping Peng, Song Tong
Interpersonal Meaning in TED Talks: An AI Supported SFL Approach	Mingzhi Mao, Wenhan Pan, Niansheng Cheng
AI Socio-Emotional Companions from the Perspective of Children in Welfare Institutions: Attitudes and Needs	Yang Ma, Cien Tong, Xi Cheng, Congyu Wang, Huarong He, Xinyi Tong, Song Tong, Zhijun Ni

Quantifying White Space of Chinese Classical Landscape Paintings Image Segmentation Task Based on Masked-attention Mask Transformer	Peng Zhang*, Shuai Li, Junchao Liu, Na Li, Binxia Xue，Yu Yan
Research on the Theory and Elements of Outdoor Camp Light Environment Design	Yonggang An
Review on Cutting-edge Developments of Management Informatization Technology	LIU Wei, WU Xiaohong, GUO Rui, SONG Yue, ZONG Hua
Applications of LLM in Smart Manufacturing: Issues and Challenges	Fangdong Zhu, Jiayuan Wang
The effects of moderate-to-vigorous intensity physical activity and screen time on college students' sleep quality	NIU Yuzhi, Wang Lichao
A Zero-Trust Architecture for 6G Network	Qijuan Li, Pengxuan Mao, Jianke Ye, Wen Pan
A Pilot Study on Motor Imagery Decoding Based on Prefrontal EEG-fNIRS Signals	Zibei Zhou, Sheng Ge