



电话：15552885131      籍贯：山东济南      政治面貌：中共预备党员

学生工作：特聘教授科研助理、华为昇腾济南站 HAG-Leader、泰迪工作室室长、图书馆志愿者协会主席

教育背景

山东建筑大学计算机与人工智能学院      人工智能专业/本科      2022-2026

● 学业成绩：GPA 3.94/5      成绩排名 1/36      综测排名 1/36

● 英语水平：CET4-519

本科导师：刘兴波（2023-）

研究生导师：方乐缘（2026.9入学）

科研经历

[1] **Weichao Pan\***, Xu Wang. MiT Loss: Medical Image-aware Transfer-calibrated Loss for Enhanced Classification. *Measurement Science and Technology*. (JCR Q1, 中科院三区, CIS-T2)

[2] **Weichao Pan\***, Xu Wang, Wenqing Huan. Real-time dynamic scale-aware fusion detection network: take road damage detection as an example. *Journal of Real-Time Image Processing*, Volume 22, article number 55, (2025). (JCR Q2, 中科院三区, CAAI-C)

[3] **Weichao Pan**, Jianmei Lei, Xu Wang, Chengze Lv, Gongrui Wang, Chong Li\*. DAPONet: A Dual Attention and Partially Overparameterized Network for Real-Time Road Damage Detection. *Applied Sciences*, 15(3), 1470, (2025). (JCR Q2, 中科院四区)

[4] **Weichao Pan**, Xu Wang, Chengze Lv, Zicheng Lin, Gongrui Wang, Xuening Zhang, Yi Sun, Xingbo Liu\*. HVLO-YOLO: An Ultra-Lightweight Detection Model for High-voltage Line Obstacles. *The 36th British Machine Vision Conference (BMVC 2025)*. (CORE A, CCF-C)

[5] **Weichao Pan**, Bohan Xu, Xu Wang, Chengze Lv, Shuoyang Wang, Zhenke Duan\*, Zhen Tian. YOLO-FireAD: Efficient Fire Detection via Attention-Guided Inverted Residual Learning and Dual-Pooling Feature Preservation, *21st International Conference on Intelligent Computing (ICIC 2025)*. (CCF-C)

[6] Xu Wang†, **Weichao Pan†**, Ruida Liu, Keyan Jin, Zhen Tian\*. SM-CBNet: A Speech-Based Parkinson's Disease Diagnosis Model with SMOTE-ENN and CNN\_BiLSTM Integration, *21st International Conference on Intelligent Computing (ICIC 2025)*. (CCF-C, 共同一作)

[7] **潘维超**, 邹文庆, 刘兴波\*, 王旭。基于招聘大数据与机器学习的数字人才需求与能力模型构建[J], *软件导刊*, 2025, 24(4): 173-183. (CCF-T3)

[8] Jiaju Kang, **Weichao Pan**, Tian Zhang, Ziming Wang, Shuqin Yang, Zhiqin Wang, Jian Wang, Xiaofei Niu. Correcting Factuality Hallucination in Complaint Large Language Model via Entity-Augmented, *2024 International Joint Conference on Neural Networks (IJCNN 2024)*. (CCF-C)

多项工作已完成，序号加粗的为第一作者，加\*为通讯作者，目前在审：

[1\*] LUOD-YOLO: A Lightweight Underwater Object Detection Model Based on Dynamic Feature Fusion, Dual Path Rearrangement and Cross-scale Integration (*Journal of Real-Time Image Processing (JRTIP)*, CAAI-C) 2025.6.2- MaRe-2025.7.31-MiRe-2025.8.28-

[2] RailDet: A Unified and Efficient Framework for Cross-Dataset Railway Obstacle Detection via Aerial and Ground Sensing (*IEEE Transactions on Intelligent Transportation Systems (T-ITS)*, CCF-B) 2025.6.24-

[3] MedCTM: A CNN-Transformer-Mamba Hybrid Network for Medical Image Classification (*2025 IEEE International Conference on Bioinformatics and Biomedicine (BIBM 2025)*, CCF-B) 2025.7.16-

[4] DynaFreq-YOLO: Dynamic Frequency-Spatial Synergy Network for Lightweight Insulator Defect

Detection in Complex Environments (*IEEE Transactions on Instrumentation and Measurement (T-IM)*) 2025.7.17-RR-2025.8.7-

[5] RIE-SenseNet: Riemannian Manifold Embedding of Multi-Source Urban Sensor Signals for Robust Pattern Recognition in Smart Cities (*AAAI Conference on Artificial Intelligence (AAAI 2026)*, **CCF-A**) 2025.7.18-

[6] ECG-Expert-QA: A Benchmark for Evaluating Medical Large Language Models in Heart Disease Diagnosis (*2025 IEEE International Conference on Bioinformatics and Biomedicine (BIBM 2025)*, **CCF-B**) 2025.7.30-

[7] KA: A Lightweight Kolmogorov-Arnold Guided Local-Global Attention for Medical Image Analysis (*2025 IEEE International Conference on Bioinformatics and Biomedicine (BIBM 2025)*, **CCF-B**) 2025.7.31-

[8] MedVK: Efficient Medical Image Classification via Decoupled Vision Kolmogorov-Arnold Networks (*2025 IEEE International Conference on Bioinformatics and Biomedicine (BIBM 2025)*, **CCF-B**) 2025.8.3-

[9] DiSpecNet: Towards Extremely Efficient Fault Diagnosis of Pumping Units (*Measurement Science and Technology (MST)* (**CIS-T2**)) 2025.8.31-ModRe-2025.9.27-

[10] Measurement-Oriented Riemannian Embedding for Event Detection and Calibration Transfer in  $\phi$ -OTDR Distributed Fiber Sensing (*IEEE Transactions on Instrumentation and Measurement (T-IM)*) 2025.9.11-RR-2025.9.20-

[11] SAIoU: A Synergistic Adaptive IoU Loss for Boundary Box Regression (*2026 International Conference on Acoustics, Speech, and Signal Processing (ICASSP 2026)*, **CCF-B**) 2025.9.12-

[12] Ghost Meets KAN With Mamba: A Hybrid Local-Global Network for Low-Cost Medical Image Classification (*2026 International Conference on Acoustics, Speech, and Signal Processing (ICASSP 2026)*, **CCF-B**) 2025.9.14-

[13] Deepocean-PT: Towards Efficient and Accurate Modeling of Submarine Temperature and Pressure Dynamics (*2026 International Conference on Acoustics, Speech, and Signal Processing (ICASSP 2026)*, **CCF-B**) 2025.9.14-

[14] Learning Class-Conditional Temperature with Entropy Alignment for Medical Image Classification (*2026 International Conference on Acoustics, Speech, and Signal Processing (ICASSP 2026)*, **CCF-B**) 2025.9.18-

[15\*] YOLO-ROC: A High-Precision and Ultra-Lightweight Model for Real-Time Road Damage Detection (*Measurement Science and Technology (MST)* (**CIS-T2**))

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担任 2025 *International Joint Conference on Neural Networks (IJCNN)*, 2025 *IEEE International Conference on Systems, Man, and Cybernetics (SMC)*, 2025 *British Machine Vision Conference (BMVC)* 会议以及 *Journal of Real-Time Image Processing (JRTIP)* 和 *Current Medical Imaging (CMIM)* 期刊审稿人。

## 获奖情况

在校期间总计获80余项教育部榜单内省级国家级奖项。

2023-2024国家奖学金（院第一个大二学年获此奖）。

第十六届蓝桥杯全国软件和信息技术专业人才大赛全国总决赛一等奖（5%）。

第十七届中国大学生计算机设计大赛全国总决赛二等奖。

第六届全球校园人工智能算法精英大赛全国总决赛二等奖。

第十届全国大学生统计建模大赛全国总决赛二等奖（0.8%）等。