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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\***, Jiaju Kang, Xu Wang, Gongrui Wang. An Ultra-Efficient Dual-Domain Network for Pumping Units Fault Diagnosis. *Measurement Science and Technology*. (JCR Q1, 中科院三区, CIS-T2)

[3] **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)

[4] **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)

[5] **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)

[6] **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)

[7] 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)

[8] Chengze Lv, **Weichao Pan\***. 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*, (2025). (JCR Q2, 中科院三区, CAAI-C)

[9] **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)

[10] 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)

[11] Xu Wang, Jiaju Kang, Puyu Han, **Weichao Pan**, Luqi Gong\*, and Fanda Fan. ECG-Expert-QA: A Benchmark for Evaluating Medical Large Language Models in Heart Disease Diagnosis, *IEEE International Conference on Bioinformatics and Biomedicine (BIBM 2025)*. (CCF-B)

多份工作已完成，序号加粗的为第一作者，加\*为通讯作者，目前在申：

[1] 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-

[2] 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-

[3] 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-

[4] 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-

[5] 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-

[6] 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-

[7] 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-

[8\*] YOLO-ROC: A High-Precision and Ultra-Lightweight Model for Real-Time Road Damage Detection (*Measurement Science and Technology (MST)*), **(CIS-T2)**) 2025.10.21-

[9\*] YOLO-IDDX: A Multi-Dimensional and Compact Framework for UAV-Based Insulator Defect Detection (*Expert Systems with Applications (ESWA)*),**中科院一区TOP**) 2025.10.23-

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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)*、 *The Visual Computer (TVC)*、 *Signal, Image and Video Processing (SIVP)*和*Current Medical Imaging (CMIM)*等期刊**审稿人**，累计审稿10余次。

**获奖情况**

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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。