廖智民

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教育经历

西安交通大学 | 人工智能 | 博士研究生 2023.09—2028.06（预计）

主要研究方向为自动驾驶场景下的 **3D 场景理解**

吉林大学 | 自动化 | 工学学士 2019.09—2023.06

GPA: 3.7/4.0(专业前 3%)，获学业奖学金多次，RoboMaster 北部三等奖

优秀毕业论文: 基于车路协同下的三维立体检测算法研究

发表论文

LO-World: Unified BEV Representation for 4D LiDAR and Occupancy Forecasting 2026

Under Reivew

Zhimin Liao, Ping Wei, Kai Mao, Shuaijia Chen, Ziyang Ren

Cylinderfusion: Self-Adaptive Cylindrical 3+ 1D Radar-Camera Fusion for Waterway Point Cloud Segmentation 2026

IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP) 2026

Shuaijia Chen, Ping Wei, Linyu Zhang, ***Zhimin Liao***, Bole Wang

I^2-World: Intra-Inter Tokenization for Efficient Dynamic 4D Scene Forecasting 2025

International Conference on Computer Vision (ICCV) 2025

Zhimin Liao, Ping Wei, Ruijie Zhang, Shuaijia Chen, Haoxuan Wang, Ziyang Ren

STCOcc: Sparse Spatial-Temporal Cascade Renovation for 3D Occupancy and Scene Flow Prediction 2025

Computer Vision and Pattern Recognition (CVPR) 2025

Zhimin Liao, Ping Wei, Shuaijia Chen, Haoxuan Wang, Ziyang Ren

SAMPO: Scale-wise Autoregression with Motion Prompt for Generative World Models 2025

Annual Conference on Neural Information Processing Systems (NIPS) 2025

Sen Wang, Jingyi Tian, Le Wang, **Zhimin Liao**, lijiayi, Huaiyi Dong, Kun Xia, Sanping Zhou, Wei Tang, Gang Hua

Local-to-Global Perception Network for Point Cloud Segmentation 2024

2024 IEEE International Conference on Multimedia and Expo (ICME) 2024

Haoxuan Wang, Ping Wei, Shuaijia Chen, ***Zhimin Liao***, Jialu Qin

Semantic Consistency Reasoning for 3D Object Detection in Point Clouds 2023

IEEE Transactions on Neural Networks and Learning Systems (TNNLS) 2023

Wenwen Wei, Ping Wei, ***Zhimin Liao***, Jialu Qin, Xiang Cheng, Meiqin Liu

3D Scene Graph Generation From Point Clouds 2023

IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP) 2023

Wenwen Wei, Ping Wei, Jialu Qin, ***Zhimin Liao***, Shuaijie Wang, Xiang Cheng

获奖情况

CVPR 2024 Autonomous Grand Challenge——Occupancy and flow Runner up 2024

实习经历

地平线——感知算法研发 2026

负责 Occ 世界模型算法研发、实现实时动态 4D 感知