Tianhang Wang

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Education

Tongji University, Shanghai, China   *September 2021 – Present*

Ph.D. student of Automotive Engineering
Supervisor: Prof. Guang Chen
Research Interests: 3D computer vision, deep learning, autonomous driving, and collaborative perception.

Dalian University of Technology, Dalian, China   *September 2017 – July 2021*

Bachelor of Automotive Engineering
GPA: 4.60/5.0 (Top 5%)

Publications

RCDN: Towards Robust Camera-Insensitivity Collaborative Perception via Dynamic Feature-based 3D Neural Modeling
Tianhang Wang, Fan Lu, Zehan Zheng, Guang Chen✉, Changjun Jiang
*Advances in Neural Information Processing Systems (**NeurIPS**)*, *CCF-A*, 2024

A Unified Bandwidth-efficient and Multi-resolution based Collaborative Perception Framework
Tianhang Wang, Guang Chen✉, Kai Chen, Zhengfa Liu, Bo Zhang, Alois Knoll, Changjun Jiang
*IEEE/CVF International Conference on Computer Vision (**ICCV**)*, *CCF-A*, 2023

GSC: A Graph and Spatio-temporal Continuity Based Framework for Accident Anticipation
Tianhang Wang, Kai Chen, Guang Chen✉, Bin Li, Zhijun Li, Changjun Jiang
*IEEE Transactions on Intelligent Vehicles (**T-IV**)*, *SCI JCR Q1*, 2023

Under Review

UrbanCraft: Urban View Extrapolation via Hierarchical Sem-Geometric Priors
Tianhang Wang*, Fan Lu*, Sanqing Qu, Guo Yu, Shihang Du, Qiao Lin, Yuan Huang, Guang Chen✉
ArXiv, 2024

Benchmarking Robustness for Collaborative Perception Under Diverse Corruptions
Shihang Du, Sanqing Qu, **Tianhang Wang**, Xudong Zhang, Yunwei Zhu, Qiao Lin, Guang Chen✉
ArXiv, 2024

Post-Refining LiDAR Point Cloud Registration via Diffusionbased Correspondence Refinement
Fan Lu, **Tianhang Wang**, Guo Yu, Alois Knoll, Guang Chen✉, Changjun Jiang
IEEE/ASME Transactions on Mechatronics, *SCI JCR Q1*, 2024

Honors and Awards

- Scholarship of Tongji REFIRE Technology, 2024
- Dalian Outstanding Graduate, 2021
- Third Prize of National Post-Graduate Mathematical Contest in Modeling, 2019
- First Class Scholarship of Dalian University of Technology, 2017-2021