Anjun Chen

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Education

Zhejiang University Hangzhou, CN
Ph.D. Student, College of Control Science and Engineering Mar 2022 – Present
Area of Study: Computer Vision and Robotics Advisor: Prof. Qi Ye, Prof. Jiming Chen

Zhejiang University Hangzhou, CN
M.E. Student, Polytechnic Institute Sep 2019 – Mar 2022
Major: Control Engineering

Jilin University Changchun, CN
B.E., College of Communication Engineering Sep 2015 – Jun 2019
Major: Measurement Technology

Research Experience

University of Pennsylvania Philadelphia, US
Visiting Scholar, Department of Computer and Information Science Aug 2024 – Present
Research Topic: Gaussian Avatar Advisor: Prof. Lingjie Liu

NetEase Hangzhou, CN
Research Intern, Fuxi AI Lab Nov 2023 – Mar 2024
Research Topic: Multi-Modal Matching in Autonomous Excavator

Publications

Conferences

1. MAexp: A Generic Platform for RL-Based Multi-Agent Exploration
S. Zhu, J. Zhou, **A. Chen**, M. Bai, J. Chen, and J. Xu.
IEEE International Conference on Robotics and Automation (ICRA), 2024
2. InterRep: A Visual Interaction Representation for Robotic Grasping
Y. Cui, Q. Liu, **A. Chen**, Q. Ye, G. Li, and J. Chen.
IEEE International Conference on Robotics and Automation (ICRA), 2024
3. CAMInterHand: Cooperative Attention for Multi-View Interactive Hand Pose and Mesh Reconstruction
G. Han, Q. Ye, **A. Chen**, and J. Chen.
IEEE International Conference on Robotics and Automation (ICRA), 2024
4. ImmFusion: Robust mmWave-RGB Fusion for 3D Human Body Reconstruction in All Weather Conditions
A. Chen, X. Wang, K. Shi, S. Zhu, Y. Chen, B. Fang, J. Chen, Y. Huo, and Q. Ye.
IEEE International Conference on Robotics and Automation (ICRA), 2023
5. mmBody Benchmark: 3D Body Reconstruction Dataset and Analysis for Millimeter Wave Radar
A. Chen, X. Wang, S. Zhu, Y. Li, J. Chen, and Q. Ye.
ACM International Conference on Multimedia (ACM MM), 2022

Journals

1. AdaptiveFusion: Adaptive Multi-Modal Multi-View Fusion for 3D Human Body Reconstruction
A. Chen, X. Wang, Z. Xu, K. Shi, Y. Qin, Y. Huo, J. Chen, and Q. Ye.
IEEE Transactions on Multimedia (TMM), Accepted
2. Towards Weather-Robust 3D Human Body Reconstruction: Millimeter-Wave Radar-Based Dataset, Benchmark, and Multi-Modal Fusion
A. Chen, X. Wang, Z. Xu, K. Shi, J. Chen, Y. Huo, and Q. Ye.

IEEE Transactions on Circuits and Systems for Video Technology (TCSVT), 2024

3. Radar and Camera Fusion for Object Detection and Tracking: A Comprehensive Survey
   K. Shi, S. He, Z. Shi, **A. Chen**, J. Chen, and J. Luo.
   IEEE Communications Surveys and Tutorials (COMST), Accepted
4. Road-Map Aided GM-PHD Filter for Multi-Vehicle Tracking with Automotive Radar
   K. Shi, Z. Shi, C. Yang, S. He, J. Chen, and **A. Chen**.
   IEEE Transactions on Industrial Informatics (TII), 2021

Others

1. Vid2Sim: Generalizable, Video-based Reconstruction of Geometry and Physical Property for Mesh-free Simulation
   C. Chen, Z. Dou, C. Wang, Y. Huang, **A. Chen**, Q. Feng, J. Gu, and L. Liu.
   Under Review
2. TaskExp: Enhancing Generalization of Multi-Robot Exploration with Multi-Task Pre-Training
   S. Zhu, Y. Xu, **A. Chen**, and J. Xu.
   Under Review
3. UpViTaL: Unpaired Visual-Tactile Self-Supervised Representation Learning for Dexterous Robotic Manipulation
   G. Han, Q. Liu, Y. Cui, **A. Chen**, J. Chen, and Q. Ye.
   Under Review

Awards & Scholarships

Academic Scholarship of Zhejiang University
Outstanding Graduate Student of Zhejiang University

Programming Experience

Python, C++, C, Java, Matlab

Teaching and Service

Reviewer: CVPR, ICRA, IROS, TCSVT, IOTJ, RAL
Teaching Assistant: Computer Vision, Zhejiang University Spring 2022