Anjun Chen

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Research Interest

My research interests lie in Computer Vision. My previous work focused on adaptive multi-modal multi-view data fusion for 3D human body reconstruction. My current research plan is to achieve feature alignment among multi-modal data.

Education

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

Zhejiang University Hangzhou, CN
M.E., 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 Topics: Gaussian Avatar Advisor: Prof. Lingjie Liu

Publications

Conferences

- 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 2024*
- 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 2024*
- 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 2024*
- 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 2023*
- 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 2022*

Journals

- 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 2024*
- 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 2024*
- 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 2024*
- 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 2021*

Others

- 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. *Submitted to IEEE/CVF Conference on Computer Vision and Pattern Recognition 2025*

- TaskExp: Enhancing Generalization of Multi-Robot Exploration with Multi-Task Pre-Training

  S. Zhu, Y. Xu, **A. Chen**, and J. Xu. *Submitted to IEEE International Conference on Robotics and Automation 2025*

- 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. *Submitted to IEEE International Conference on Robotics and Automation 2025*

AWARDS & SCHOLARSHIPS

Academic Scholarship of Zhejiang University

Outstanding Graduate Student of Zhejiang University

PROGRAM EXPERIENCE

Python, C++, C, Java, Matlab