

Jie Wang

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Education

- Ph.D. Student in 3D computer vision, Beijing Institute of Technology, China 09/2024~ now
Advisor: Prof. Jianan Li and Prof. Tingfa Xu.
- M.S. Student in 3D computer vision, Beijing Institute of Technology, China 09/2021~ 06/2024
Advisor: Prof. Jianan Li and Prof. Tingfa Xu.
- B.Eng. in School of Optics and Photonics, Beijing Institute of Technology, China 09/2017~ 06/2021

Publications

- [1] Jianan Li, **Jie Wang**, Junjie Chen, Tingfa Xu†
Towards Robust Point Cloud Recognition with Sample-Adaptive Auto-Augmentation
TPAMI, 2025 (**first author is my advisor**)
- [2] **Jie Wang**, Tingfa Xu†, Lihe Ding, Xinjie Zhang, Long Bai, Jianan Li†
PvNeXt: Rethinking Network Design and Temporal Motion In Point Cloud Videos
ICLR, 2025
- [3] **Jie Wang**, Tingfa Xu†, Lihe Ding, Jianan Li†
APCT: Adversarial Point Cloud Transformer Towards Recognition Against Real-world Corruptions
NeurIPS, 2024
- [4] **Jie Wang**, Lihe Ding, Tingfa Xu†, Shaocong Dong, Xinli Xu, Long Bai, Jianan Li†
Sample-adaptive Augmentation for Point Cloud Recognition Against Real-world Corruptions
ICCV, 2023
- [5] Jianan Li*, **Jie Wang***, Shenwang Jiang, Lihe Ding, Shaocong Dong, Xinli Xu, Tingfa Xu†
PointGL: A Simple Global-Local Framework for Efficient Point Cloud Analysis
TMM, 2024 (**co-first author with my advisor**)
- [6] **Jie Wang**, Tingfa Xu†, Lihe Ding, Ying Wang, Jianan Li †
PAPooling: Graph-based Position Adaptive Aggregation of Local Geometry in Point Clouds
In Submission
- [7] Long Bai*, Guankun Wang*, Jie Wang, Xiaoxiao Yang, Huxin Gao, Xin Liang, An Wang, Mobarakol Islam, Hongliang Ren†
OSSAR: Towards Open-Set Surgical Activity Recognition in Robot-assisted Surgery
ICRA, 2024 (**Oral Presentation**)

- [8] Lihe Ding*, Shaocong Dong*, Tingfa Xu†, Xinli Xu, **Jie Wang**, Jianan Li†
FH-Net: A Fast Hierarchical Network for Scene Flow Estimation on Real-world Point Clouds
ECCV, 2022 **(Oral Presentation)**
- [9] Shaocong Dong*, Lihe Ding*, Haiyang Wang, Tingfa Xu†, Xinli Xu, Ziyang Bian, Ying Wang, **Jie Wang**, Jianan Li†
MsSVT: Mixed-scale Sparse Voxel Transformer for 3D Object Detection on Point Clouds
NIPS, 2022

Competitions

- [1] **Jie Wang**, Shenwang Jiang, Tingfa Xu, Lihe Ding, Shaocong Dong, Xinli Xu, Peifu Liu, Shengyu Gu, Jianan Li
3-rd place in ECCV2022 The 1st Challenge on Point Cloud Robustness under Corruptions: Classification Track
- [2] **Jie Wang**, Shenwang Jiang, Tingfa Xu, Lihe Ding, Shaocong Dong, Xinli Xu, Peifu Liu, Shengyu Gu, Jianan Li
3-rd place in ECCV2022 The 1st Challenge on Point Cloud Robustness under Corruptions: Part Segmentation Track

Experiences

- Zhejiang University, Zhejiang, China 2022.11 - 2023.3
Advisor: Prof. Hehe Fan
Research Intern (Remote)

Honors and Awards

- 2020 National Encouragement Scholarship, Ministry of Education of P.R. China
- 2019 National Encouragement Scholarship, Ministry of Education of P.R. China
- 2018 National Encouragement Scholarship, Ministry of Education of P.R. China

Skills

- Proficient: Python, PyTorch, LaTeX, Ubuntu
- Skilled: C/C++, MATLAB, Open3d

Academic Services

- Review for CVPR/ECCV/NeurIPS/ICLR/ICML/AISTATS/ICRA/IROS