Jie Wang

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Education

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
     In Submission to TPAMI**(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
     In Submission

[3] **Jie Wang**, Tingfa Xu†, Lihe Ding, Jianan Li†
     APCT: Adversarial Point Cloud Transformer Towards Recognition Against Real-world Corruptions
     In Submission

[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
  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/NIPS/ICRA/IROS