Xiang Xu, Ph.D.

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Employment History

2021 – 2023 **Algorithm engineer,** Leapmotor Technologies Co. Ltd.

Education

2023 – 2027 **Ph.D.** in Computer Science and Technology
Nanjing University of Aeronautics and Astronautics
Advisor: Prof. Qingshan Liu

2018 – 2021 **M.S.** in Control Science and Engineering
Nanjing University of Information Science and Technology
Advisor: Prof. Qingshan Liu

2014 – 2018 **B.S.** in Electrical Engineering and Automation
Nanjing University of Information Science and Technology

Research Publications

Journal Articles

1. L. Kong, **X. Xu**, J. Cen, *et al.*, "Calib3d: Calibrating model preferences for reliable 3d scene understanding," *arXiv preprint arXiv:2403.17010*, 2024.
2. L. Kong, **X. Xu**, J. Ren, *et al.*, "Multi-modal data-efficient 3d scene understanding for autonomous driving," *arXiv preprint arXiv:2405.05258*, 2024.
3. J. Sun, C. Qing, **X. Xu**, *et al.*, "An empirical study of training state-of-the-art lidar segmentation models," *arXiv preprint arXiv:2405.14870*, 2024.
4. **X. Xu**, L. Kong, H. Shuai, and Q. Liu, "Frnet: Frustum-range networks for scalable lidar segmentation," *arXiv preprint arXiv:2312.04484*, 2023.
5. L. Zhu, S. Wang, Z. Zhao, **X. Xu**, and Q. Liu, "Ced-net: Contextual encoder–decoder network for 3d face reconstruction," *Multimedia Systems*, vol. 28, no. 5, pp. 1713–1722, 2022.
6. H. Shuai, **X. Xu**, and Q. Liu, "Backward attentive fusing network with local aggregation classifier for 3d point cloud semantic segmentation," *IEEE Transactions on Image Processing*, vol. 30, pp. 4973–4984, 2021.

Conference Proceedings

1. **X. Xu**, L. Kong, H. Shuai, *et al.*, "4d contrastive superflows are dense 3d representation learners," in *European Conference on Computer Vision*, 2024.
2. H. Shuai, **X. Xu**, and Q. Liu, "Waterfall-net: Waterfall feature aggregation for point cloud semantic segmentation," in *Chinese Conference on Pattern Recognition and Computer Vision*, 2022, pp. 28–40.
3. **X. Xu**, G. Huang, L. Hu, and Y. Wang, "Semantic-aware object detection for 3d point cloud," in *International Conference on Optics and Machine Vision*, vol. 12173, 2022, pp. 259–265.

Miscellaneous Experience

Research Projects

2023 **MMDetection3D**: OpenMMLab next-general platform for general 3D object detection
Work closely with Wenwei Zhang and Lingdong Kong.

Selected Honors

2018 **Outstanding Freshman Scholarship**, Nanjing University of Information Science and Technology.

2016 **The First Prize of National Undergraduate Electronics Design Contest** in Jiangsu Division.