

Laiyan Ding

117010053@link.cuhk.edu.cn

+86 15608655033

<https://denyingmxd.github.io/>



I have been working on computer vision problems for the past few years. My recent projects include self-supervised depth estimation, lightweight ToF-related depth completion, and semantic scene completion. I am now interested in depth-based reconstruction and 3D scene understanding and looking for internship or visiting opportunities.

Education

September 2023 - Now	The Chinese University of Hong Kong, Shenzhen PhD of Computer and Information Engineering	
September 2021– 2023	The Chinese University of Hong Kong, Shenzhen Mphil of Computer and Information Engineering	GPA:3.7/4.0
September 2017 – June 2021	The Chinese University of Hong Kong, Shenzhen Bachelor of Engineering in Computer Science and Engineering	GPA:3.4/4.0

Publications

Laiyan Ding, Hualie Jiang, Rui Xu, Rui Huang. "CFPNet: Improving Lightweight ToF Depth Completion via Cross-zone Feature Propagation." 2025 International Conference on 3D Vision (3DV). IEEE, 2025.

Laiyan Ding, Hualie Jiang, Jie Li, Yongquan Chen, Rui Huang. "Towards Cross-View-Consistent Self-Supervised Surround Depth Estimation." 2024 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS). IEEE, 2024.

Laiyan Ding, Panwen Hu, Jie Li, Rui Huang. "Towards Balanced RGB-TSDF Fusion for Consistent Semantic Scene Completion by 3D RGB Feature Completion and a Classwise Entropy Loss Function." Chinese Conference on Pattern Recognition and Computer Vision (PRCV). Singapore: Springer Nature Singapore, 2023.

Jie Li, Laiyan Ding, Rui Huang. "Imenet: Joint 3d semantic scene completion and 2d semantic segmentation through iterative mutual enhancement." arXiv preprint arXiv:2106.15413 (2021).

Hualie Jiang, Laiyan Ding, Junjie Hu, Rui Huang. "PLNet: Plane and line priors for unsupervised indoor depth estimation." 2021 International Conference on 3D Vision (3DV). IEEE, 2021.

Hualie Jiang, Laiyan Ding, Zhenglong Sun, Rui Huang. "Dipe: Deeper into photometric errors for unsupervised learning of depth and ego-motion from monocular videos." 2020 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS). IEEE, 2020.

◆ One more paper is currently under review at ICRA 2025 now. I will update the paper and code once it is accepted.

Skills

Programming Languages and Libraries Python, Pytorch

Useful Tools Open3d, Linux, Latex

Hobbies

Badminton, Basketball, Swimming, KPL