Laiyan Ding

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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 they are accepted.

Skills

Programming Languages and Libraries Python, Pytorch

Useful Tools Open3d, Linux, Latex

Hobbies Badminton, Basketball, Swimming, KPL