

## EDUCATION

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### University of Technology Sydney

Ph.D. student in Robotics, expected June 2025

– Supervisor: Prof. Shoudong Huang and Dr. Liang Zhao

Sydney, Australia

Jul. 2021 - Present

### Ocean University of China

Master in Computer Science

– Supervisor: Prof. Junyu Dong

Qingdao, China

Sept. 2017 - Jun. 2020

### Chengdu University of Technology

Bachelor in Computer Science

Chengdu, China

Sept. 2013 - Jun. 2017

## PUBLICATIONS

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- [1] **Y. Wang**, L. Zhao, and S. Huang, “Occupancy-slam: An efficient and robust algorithm for simultaneously optimizing robot poses and occupancy map”, in *Under Review*.
- [2] **Y. Wang**, L. Zhao, and S. Huang, “Grid-based submap joining: An efficient algorithm for simultaneously optimizing global occupancy map and local submap frames”, in *IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS) 2024*.
- [3] **Y. Wang**, Y. Ju, M. Jian, K.-M. Lam, L. Qia, and J. Dong, “Self-supervised depth completion with attention-based loss”, in *International Workshop on Advanced Imaging Technology (IWAIT) 2020*, SPIE, vol. 11515, 2020, pp. 517–524.
- [4] L. Zhao, **Y. Wang**, and S. Huang, “Occupancy-SLAM: Simultaneously Optimizing Robot Poses and Continuous Occupancy Map”, in *Proceedings of Robotics: Science and Systems*, New York City, NY, USA, Jun. 2022.
- [5] Y. Zhang, **Y. Wang**, J. Dong, L. Qi, H. Fan, X. Dong, M. Jian, and H. Yu, “A joint guidance-enhanced perceptual encoder and atrous separable pyramid-convolutions for image inpainting”, *Neurocomputing*, vol. 396, pp. 1–12, 2020.
- [6] Y. Ju, M. Jian, S. Guo, **Y. Wang**, H. Zhou, and J. Dong, “Incorporating lambertian priors into surface normals measurement”, *IEEE Transactions on Instrumentation and Measurement*, vol. 70, pp. 1–13, 2021.
- [7] Y. Ju, X. Dong, **Y. Wang**, L. Qi, and J. Dong, “A dual-cue network for multispectral photometric stereo”, *Pattern Recognition*, vol. 100, p. 107 162, 2020.

## PATENTS

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1. Junyu Dong, Jie Gao, Hao Fan, Jun Chi, **Yingyu Wang**, 3D Imaging Device and Method based on Multi-spectral Photometric Stereo and Laser Scanning, *Invention Patent in China*.

## PROFESSIONAL SERVICE

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- **Reviewer for Journal:**
  - The International Journal of Robotics Research (IJRR)
  - IEEE Transactions on Robotics (T-RO)

- **Reviewer for Conference:**
  - IEEE International Conference on Robotics and Automation (ICRA)
  - IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)
- **Teaching:**
  - Tutor for UTS 49928 Design Optimisation for Manufacturing in 2022 and 2023