

Yipeng Pan

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(+852) 6733-3260

Hong Kong SAR

EDUCATION

China University of Mining and Technology (211)

Sep 2015 – Jul 2019

B.Eng. in Electronic Engineering

Recommended Admission to Postgraduate of ShanghaiTech/BIT

The University of Hong Kong

Sep 2023 – TBC.

Ph.D. in Computer Science (Robotics)

Supervisor: [Dr. Jia Pan](#)

[Prof. Anthony G.O. Yeh](#) (Academician, Chinese Academy of Sciences)

CAREER

HKUST iLab

Position: Research Assistant

Apr 2021 – Nov 2021

Director: Prof. Weisheng Lu

Nov 2022 – Mar 2023

HKUST HKCRC

Dec 2021 – Oct 2022

Position: Research Assistant

Director: Prof. Zexiang Li

HKU TransGP

Apr 2023 – TBC.

Position: Research Assistant

Director: Prof. Norman C. Tien

SKILLS

Coding: C / C++ / Java / Python

GUI: Qt (C++), Android (Java), IOS (Objective - C)

Cooperation: Git

Computer Vision: OpenCV, Halcon

Robotics: Linux Shell, ROS

Mechanics: AutoCAD, SolidWorks, 3D Printing

Electronics: Verilog HDL (FPGA), STM32 (HAL, STD), Arduino, PCB Layout (SMT)

Word: LaTeX, Markdown

AWARDS

Gold Award, Hong Kong ICT Awards (Smart Logistics)

2022

2nd Prize, National Electronic Design Competition

2017

National Encouragement Scholarship, Ministry of Education

2018

Honorable Mentions, Mathematical Contest in Modeling

2018

1st Prize, Provincial Electronic Design Competition

2017

2nd Prize, Provincial Electronic Design Competition

2018

2 nd Prize, Postgraduate Electronic Design Competition	2019
School Excellent Graduation Design	2019
1 st Prize, School Electronic Design Competition	2019
Second Class Scholarship	2017

PUBLICATIONS

- [1] Wang, Dawei & PAN, Yipeng & Pan, Jia. "FotoBot: An Embodied AI robot system for photography." IEEE International Conference on Robotics and Automation (2025)
- [2] Xing, Wanli & Lin, Shijie & Yang, Linhan & Zhang, Zeqing & Du, Yanjun & Lei, Maolin & Pan, Yipeng & Pan, Jia. "EROAM: Event-based Camera Rotational Odometry and Mapping in Real-time." 2024 IEEE Transactions on Robotics (2024).
- [3] Zheng, Xinzhe, et al. "Magnetometer-Calibrated Hybrid Transformer for Robust Inertial Tracking in Robotics." 2025 IEEE International Conference on Robotics and Automation (ICRA). IEEE, 2025.
- [4] Zheng, Xinzhe, et al. "NeurIT: Pushing the limit of neural inertial tracking for indoor robotic IoT." IEEE Transactions on Mobile Computing (2025).
- [5] Lu, Liang & Zhang, Yinqiang & Zhou, Peng & Qi, Jiaming & Pan, Yipeng & Fu, Changhong & Pan, Jia. "Semantics-Aware Receding Horizon Planner for Object-Centric Active Mapping." IEEE Robotics and Automation Letters (2024).
- [6] Zhou, Peng & Zheng, Pai & Qi, Jiaming & Li, Chengxi & Lee, Hoi-Yin & Pan, Yipeng & Yang, Chenguang & Navarro-Alarcon, David & Pan, Jia. "Bimanual deformable bag manipulation using a structure-of-interest based neural dynamics model." IEEE/ASME Transactions on Mechatronics (2024).
- [7] Chen, Junjie & Lu, Weisheng & Pan, Yipeng & Fu, Yonglin. (2024). Building "RoboAvatar": Industry Foundation Classes-Based Digital Representation of Robots in the Built Environment. Journal of Computing in Civil Engineering.
- [8] Chen, Junjie & Fu, Yonglin & Lu, Weisheng & Pan, Yipeng. (2023). Augmented reality-enabled human-robot collaboration to balance construction waste sorting efficiency and occupational safety and health. Journal of Environmental Management.
- [9] Lu, Weisheng & Chen, Junjie & Fu, Yonglin & Pan, Yipeng & Ghansah, Frank. (2023). Digital twin-enabled human-robot collaborative teaming towards sustainable and healthy built environments. Journal of Cleaner Production.
- Under Review**
- [RAL] [First Author] WiFi-VIO: Tightly-Coupled WiFi-Visual-Inertial Odometry with A Single Arbitrarily Placed Access Point
- [IJRR] [Second Author] Semantic2D: Enabling Semantic Scene Understanding with 2D Lidar Alone
- [IJRR] [Third Author] BIM-Loc: BIM-Integrated Discrepancy-Aware LiDAR-based Indoor Localization