Chen FENG
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EDUCATION

•**The Hong Kong University of Science and Technology**   *2021.09-Present*
Ph.D. Candidate, Electronic and Computer Engineering   Supervisor: Prof. Shaojie SHEN

•**Harbin Institute of Technology**   *2017.08-2021.06*
Bachelor of Engineering, Mechatronics Engineering   Supervisor: Prof. Lijun ZHAO

EXPERIENCE

•**FASTLab, Zhejiang University**   *2022.05-2023.01*
Visiting Student   Hangzhou, China
 – Autonomous Aerial Reconstruction & Motion Planning collborating with Prof. Fei GAO.

•**Megvii Research**   *2021.05-2021.09*
Research Intern   Beijing, China
 – Trajectory Prediction & Lane Detection working with Hangning ZHOU and Dr. Chi ZHANG.

•**Harbin Institute of Technology Competition Robotics Team (HITCRT)**   *2019.08-2020.08*
Vice Captain   Harbin, China
 – Robot Vision Technical Support & Achieved 2020 DJI RoboMaster National First Prize.

PUBLICATIONS

•**Star-Searcher: A Complete and Efficient Aerial System for Autonomous Target Search in Complex Unknown Environments**
Submitted to IEEE Robotics and Automation Letters (RA-L)

 – Yiming Luo, Zixuan Zhuang, Neng Pan, **Chen Feng**, Shaojie Shen, Fei Gao, Hui Cheng, and Boyu Zhou

•**FC-Planner: A Skeleton-guided Planning Framework for Fast Aerial Coverage of Complex 3D Scenes**
Submitted to IEEE International Conference on Robotics and Automation (ICRA), 2024

 – **Chen Feng**, Haojia Li, Jinqi Jiang, Xinyi Chen, Shaojie Shen, and Boyu Zhou

•**MASSTAR: A Multi-Modal Large-Scale Scene Dataset with a Versatile Toolchain for Surface Prediction and Completion**
Submitted to IEEE International Conference on Robotics and Automation (ICRA), 2024

 – Jinqi Jiang*, Guiyong Zheng*, **Chen Feng***(**co-first**), Shaojie Shen, and Boyu Zhou

•**MacFormer: Map-Agent Coupled Transformer for Real-time and Robust Trajectory Prediction**
IEEE Robotics and Automation Letters (RA-L), 2023

 – **Chen Feng**, Hangning Zhou, Huadong Lin, Zhigang Zhang, Ziyao Xu, Chi Zhang, Boyu Zhou, and Shaojie Shen

•**AutoTrans: A Complete Planning and Control Framework for Autonomous UAV Paylaod Transportation**
IEEE Robotics and Automation Letters (RA-L), 2023

 – Haojia Li, Haokun Wang, **Chen Feng**, Fei Gao, Boyu Zhou, and Shaojie Shen

•**PredRecon: A Prediction-boosted Planning Framework for Fast and High-quality Autonomous Aerial Reconstruction**
IEEE International Conference on Robotics and Automation (ICRA), 2023

 – **Chen Feng**, Haojia Li, Fei Gao, Boyu Zhou, and Shaojie Shen

•**TENET: Transformer Encoding Network for Effective Temporal Flow on Motion Prediction**
IEEE/CVF Computer Vision and Pattern Recognition Conference Workshop on Autonomous Driving (CVPRW), 2022

 – Yuting Wang*, Hangning Zhou*, Zhigang Zhang*, **Chen Feng**, Huadong Lin, Chaofei Gao, Yizhi Tang, Zhenting Zhao, Shiyu Zhang, Jie Guo, Xuefeng Wang, Ziyao Xu, and Chi Zhang

TECHNICAL SKILLS

Languages: English (Fluent)/Chinese (Native)
Programming Tools: Python/C++/Matlab
Frameworks: PyTorch/MegEngine/ROS/Linux

Service

- **Reviewer:** ICRA, IROS, RA-L, CVPR

- **Teaching Assistant:** ELEC1100 Introduction to Electro-Robot Design

Selected Awards

- **Outstanding Graduate** - Harbin Institute of Technology *2021.06*
- **ABU ROBOCON Robotics Competition First Prize** - Asia Broadcasting Union *2020.08*
- **RoboMaster National First Prize** - DJI *2019.08 & 2020.08*
- **Outstanding Student** - Harbin Institute of Technology *2018.12*
- **National Scholarship** - Ministry of Education, PRC *2018.12*