

YEKE CHEN

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Education

Zhejiang University

B.S.E. in Automation

- overall GPA: 3.95/4.00, 89.8/100; ranking: 2/58

Hangzhou, China

2020 - 2024

The University of Hong Kong

Ph.D. Student

Hong Kong, China

2024 - Present

Experience

the State Key Laboratory of Industrial Control and Technology - FAST Lab

Research intern advised by Prof. Chao Xu and Prof. Fei Gao

Zhejiang University

10/2023-6/2024

the State Key Laboratory of Industrial Control and Technology - Robotics Lab

Research intern advised by Prof. Rong Xiong and Prof. Yue Wang

Zhejiang University

7/2023-10/2023

ZJUNlict(a RoboCup SSL team)

Team member

Zhejiang University

6/2022-6/2023

Projects

Learning Agility Adaptation for Flight in Clutter - PAGE & PAPER

10/2023-03/2024

- IEEE Robotics and Automation Letters, 2024.
- Completed a reinforcement learning-based upper layer planning algorithm for UAVs, which realizes adaptive variable-speed flight of UAVs in complex environments

Foothold Planning for Quadruped Robots

7/2023-Present

- Realized online COM trajectory and foothold planning for quadruped locomotion
- Proposed an end-to-end trajectory and foothold planning method based on single frame vision and reinforcement learning for quadruped robot

Soccer Robot

6/2022-6/2023

- Developed the parallel multi-vehicle-ball-passing-point calculating module based on OpenAcc
- Refined the zero and non-zero speed ball interception modules
- Regularized the passing strength

Continuous Trajectory Generation for Autonomous Driving

5/2022-5/2023

- Designed and trained a two-stage network, which generates continuous trajectory expressions
- Realized autonomous driving in CARLA

Supermarket Shopping Robot - LINK

12/2021-5/2022

- Designed the robot from scratch and implemented functions such as object detection, multi-device communication, object grasping, and line-following

Path Planning and Tracking - LINK

7/2023

- Realized RRT*, A* and JPS path planning methods; realized DWA trajectory tracking method

Inverse Kinematics and Trajectory Planning for a Space Robot - LINK

7/2023

- Completed the inverse kinematics of the space robot and the trajectory planning algorithm of joint space based on polynomial interpolation

Awards

Zhejiang Robot Competition - First Prize	5/2023
China Robot Competition / Robocup China Open (SSL) - Second Prize	11/2022
Zhejiang Robot Competition - Second Prize	8/2022
Zhejiang University Robot Competition - First Prize	5/2022&5/2021
Zhejiang Provincial Government Scholarship	2021 & 2022
Zhejiang University Scholarship - Second Prize	2021 & 2022 & 2023
Extra High Voltage Grid Scholarship	10/2023
Outstanding Graduates of Zhejiang Province (Top 5%)	6/2024
Outstanding Graduates of Zhejiang University	6/2024

Technical Skills

Python/C/C++/MATLAB/ROS/Pytorch/SolidWorks/OpenCV/CUDA C