FAN LI

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🎓 EDUCATION

Tongji University, Shanghai, China   2021.09 – 2024.03
- *M.Sc.* in Machanical Engineering

Tongji University, Shanghai, China   2016.09 – 2021.07
- *B.Eng.* in Machanical Engineering
- Awarded Excellent Graduates of Shanghai and China National Scholarship

👥 PROJECT EXPERIENCES

Intelligent for Robotics, especially for Visual Tracking and Motion planning Oct. 2018 – Present
- Investigated correlation filter (CF)-based visual object tracking for UAV. Related work has been published in top conferences.
- Research on motion planning of excavator-robots.

Perception Algorithm Engineer Intern at Hesai Technology   Jul.2020 – Aug.2020
- Research on point cloud-based object detection, fusing multiple frames to raise the accuracy of detection
- Impoving the evaluation toolbox from OpenPCDnet which was developed based on KITTI Dataset.

Tongji University DIAN Racing Formula Student Electric Team   Mar. 2018 – May 2020

Powertrain & Driverless Member

- Participating the independent research and development of the motor, I completed the mathematical model to simulate the motor control.
- Completing a 3DOF vehicle model using Simscape to realize the simulation of longitudinal, vertical, pitch and turning movements of 4WD formula racecar.
- Participating the development of the unmanned vehicle, processing the information extracted by lidar.

Shanghai University Innovation Training Project   Mar. 2019 – Mar. 2020

Violence detection system based on deep learning

- Research on identifing violent individuals based on human pose estimation technology and tracking them.

⚙ SKILLS

- Main courses: Introduction to Robotics, Planning algorithms, Convex optimization, Robotics (Coursera)
- Computer: proficient in Matlab/Simulink, familiar with ROS/C++/Python/LaTeX
- Profession skills: proficient in Solidworks/AutoCAD, familiar with Keyshot
- Language: English (CET-6)

❤ HONORS AND ACADEMIC ACHIECEMENTS

- Excellent Graduates of Shanghai (top 3% students from all majors, provincial)   Jun.2021
- China National Scholarship (top 0.2%, national)   Dec.2019-Dec.2020
- Excellent Students of Tongji (top 5%, departmental)   Dec.2019-Dec.2020
- Tongji Scholarship of Excellence (top 5%, departmental)   Dec.2018-Dec.2019
- Training-Set Distillation for Real-Time UAV Object Tracking, **Fan Li**, Changhong Fu*, Fuling Lin, Yiming Li, and Peng Lu, In ICRA'20 [paper]
- Learning Consistency Pursued Correlation Filters for Real-Time UAV Tracking, Changhong Fu*, Xiaoxiao Yang, **Fan Li**, Changjing Liu, and Peng Lu, In IROS'20 [paper]