Jie Feng

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RESEARCH INTEREST

My goal is to develop intelligence for robots that learns from people with little supervision. My research interests lie in robotics, computer vision and deep learning.

EDUCATION

Zhejiang University, Hangzhou, China — Sept. 2017 - Jul. 2021
B.Eng. in Automation (Robotics) at the College of Control Science and Engineering

- Overall GPA: 3.95/4.0 (89.2/100); **Rank: 6/153**
- **Honors Program**: Mixed Class in Chu Kochen Honor College (Top 5% students at Zhejiang University)

Coursera
Deep Learning Specialization Given By Deeplearning.ai — Oct. 2019 - Dec. 2019

RESEARCH EXPERIENCE

TuCodec, Shanghai, China
Research Intern; Adviser: *Doc. Lei Zhou* — Dec. 2019 - Apr. 2020
Video Compression Algorithm Optimization

- Participate in CVPR CLIC 2020 (Challenge on Learned Image Compression), focusing on data processing and model optimization.

Institute of Cyber-Systems and Control, Zhejiang University
Research Assistant; Adviser: *Prof. Rong Xiong* — Apr. 2019 - Apr. 2020
Multi-information Fusion Ontology For Robot Autonomous Programming

- Used SSD for object detection and hand tracking.
- Applied TRN (Temporal Relation reasoning Network) for action recognition in kitchen and trained with EPIC-Kitchen dataset.
- (On progress) Concatenate the audio and image information with current job to build ontology for robot, which can upgrade by automatically adding nodes (items and actions) into it with photoing and audio instructions.
- (Future) Add reasoning to the ontology and generate control for the manipulator to execute certain tasks, such as making a salad.

SELECTED COURSE PROJECTS

Path Planing task
Course: Robotics; Adviser: Prof. Rong Xiong — Sept. 2019 - Oct. 2019

- Implemented A^* and RRT^* algorithm for path planning task in cpp;
- Designed a simple algorithm inspired by elastic band to optimize the path;
- Used trapezoid formula and feedback control for trajectory planning;
- Adapted protobuf for communicating with experiment platform.

Eigenface
Course: Computer Vision; Adviser: Prof. Mingli Song — Oct. 2019

- Used OpenCV to implement eigenface without encapsulated functions.
- Trained the model and generated classification of faces based on the general idea of PCA.

SKILLS

Programming: C, C51, Assembly language, C++, Python, MATLAB
Framework: OpenCV, Pytorch, TensorFlow, TensorRT, Latex
Operating System: Linux, Windows, ROS

LANGUAGE

Native speaker of Mandarin Chinese and **fluent English** (TOEFL 102)

SCHOLARSHIP

Tanglixin Scholarship for Academic Excellence (30 out of 24,878) — 2018 & 2019