

Yangyang Qu

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EDUCATION

Shenzhen Institutes of Advanced Technology Chinese Academy of Science 2018.09 - 2021.06

Master of Computer Technology

China University of Petroleum 2014.09 - 2018.06

Dual Bachelor's Degree of Internet of Things Engineering and Engineering Management

- CET6(470)
- GPA:3.2/4.0, Third-class scholarship, Outstanding Cadre, Distinguished Member

PROJECT EXPERIENCE

A 24/7 visual navigation robot system for terminal distribution services 2019.05 - Now

- Participate in the visual realization part of the all-around weather function: night and all kinds of weather to switch to the same scene during the day.
- Combining image style migration, GAN and other methods to achieve all-day navigation and positioning.

Research on the key issues of semi-automatic control of intelligent wheelchairs with disabilities based on Deep Inverse Reinforcement Learning 2018.09 - Now

- Participation in the implementation of hand and head cameras in the project.
- Responsible for the head camera splitting and positioning the objects on the tabletop.

Quadrotor Fixed Placement Research 2015.09 - 2017.06

- it is an innovative entrepreneurship program for university students and has received the title of Excellence.
- As the project leader, I was mainly responsible for the precise positioning of the quad rotor.

PUBLICATIONS

- **Yangyang Qu**, Yongsheng Ou, and Rong Xiong: Low illumination enhancement for object detection in self-driving. In: 2019 IEEE International Conference on Robotics and Biomimetics (ROBIO).
- Chaoran Tian, **Yangyang Qu**, and Yongsheng Ou: Visual SLAM Based on Geometric Cluster Matching. In 2019 IEEE International Conference on Real-time Computing and Robotics (RCAR 2019)

COMPETITION EXPERIENCE

IROS Logistics Track Competition 2019.11

- We won **third place** in the competition. I was primarily responsible for the segmentation and positioning of objects in the project, providing location information and depth information for grabbing.

IROS Service Track Competition 2019.11

- We won **fifth place** in the competition. My task in the competition is the precise identification of object position and position.

World Robot Contest Coexisting-Cooperative-Cognitive Robots 2019.08

- We got the **Top Eight** of the competition. I am mainly in charge of the design implementation of robot vision, providing position coordinates for grasping objects.

Shandong Province College software competition 2016.12

- We designed a software to improve meeting efficiency and won the **third prize** in the competition.

"Weifen Electronics Cup" IoT Application Design Competition 2016.06

- Our design of the quad rotor won **first prize** in the competition.

INTEREST

- Low light enhancement; Dehaze; Derain; Deep learning; Depth estimation;