Jixin GUO

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2016.9

2015.12

2014 - 2018

OBJECTIVE HOMEPAGE http://jguoaj.github.io/about Summer Intern **EDUCATION BACKGROUND** University of California San Diego 2018.9 - present Master's degree of Intelligent Systems, Robotics & Control (ISRC) Hong Kong University of Science & Technology 2014.9 - 2018.6Bachelor's degree of Electronic & Computer Eng, Minor in Computer Science GPA:3.894/4.3 (top 2%) (major 4.187/4.3) **PUBLICATIONS** • Luqi Wang*, Daqian Cheng*, Fei Gao, Jixin Guo, Fengyu Cai, Mengxiang Lin and Shaojie Shen, A Collaborative Aerial-Ground Robotic System for Fast Exploration, in International Symposium on Experimental Robotics (ISER), Buenos Aires, Nov. 2018 **TECHICAL SKILLS** Languages: C, C++, Python, Matlab **Operating Systems: Windows, Linux** • Computer Vision (DeepLearning & Traditional) • Robotics System Development on ROS • Software & User Interface Development • Testing & Continuous Integration with Python • Image Classification & Captioning on TensorFlow • OpenCV & OpenAI gym Reinforcement Learning • Data processing with Matlab • Embedded System design with STM32 RELATED EXPERIENCES 2017.12 - 2018.6 Research: Collaborative Aerial-Ground Robotic System for fast exploration · Formulate autonomous exploration as field gradient optimization problem • Implement ground vehicle Gmapping & PID control • Implement robust state estimation, EKF & VINS-Monocular • Deploy ROS Velodyne laser scanner & Set up local Wi-Fi time synchronization **Project: A series of Computer Vision projects** 2017.10 - 2018.5 • Dense Photometric Stereo • Single View Modeling • Deep Learning Computer Vision Face Detection · Intelligent Scissor Research Project: Aerial Robot Control 2017.9 - 2017.12 • Minimum-Snap trajectory generation with A* algorithm • 3D-2D pose estimation with tags detector • EKF sensor fusion with IMU & monocular visual odometry Internship: DJI Corp. Navigation Department, Software & System Developer 2017.6 - 2017.8 • Develop data visualization software & UI individually · Implement continuous integration(CI) system framework with Github, Jenkins & Simulator Environment used for tracking algorithm testing, individually • Hack GTA5 to collect training datasets for Neural Network **EXPERIENCES & HONORS** • Participant, Stanford Summer International Honors Program 2016.6 - 2016.8• External Vice President, Model United Nation Club, HKUST 2015.3 - 2016.3· Organizer, MUN Inter-University Annual Conference, HKUST 2015.11 - 2015.11• Team Member, HKUST Robotics Team 2015.10 - 2015.12

HKSAR Government Reaching Out Award

· Dean's List, HKUST

· Robotic Design Contest, Second runner-up, HKUST