Ruoxiang Li | Curriculum Vitae

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RESEARCH INTEREST

Event-based SLAM, Computer Vision, Robotics

EDUCATION

National University of Defense Technology (Non-military student)

Changsha, China

Master of Engineering in Computer Science and Technology

Sept. 2017 - June 2020

Advisor: Prof. Dr. Dianxi Shi

Northeastern University Bachelor of Engineering in Internet of Things

Shenyang, China Sept. 2013 - June 2017

GPA: 3.8085/5 (Ranking: 6/59)

PUBLICATIONS

- o Ruoxiang, Li and Dianxi, Shi and Yongjun, Zhang and Kaiyue, Li and Ruihao, Li, "FA-Harris: A Fast and Asynchronous Corner Detector for Event Cameras," Accepted by IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), 2019.
- o Kaiyue, Li and Dianxi, Shi and Yongjun, Zhang and Ruoxiang, Li and Ruihao, Li, "Feature Tracking Based on Line Segments with the Dynamic and Active-pixel Vision Sensor (DAVIS)," In submission.
- o Zhuoyue, Yang and Dianxi, Shi and Yongjun, Zhang and Shaowu, Yang and Fu, Li and Ruoxiang, Li, "Multi-UAV Collaborative Monocular SLAM Focusing on Data Sharing," International Conference on Neural Information Processing. Springer, Cham, 2018.

COMPETITION EXPERIENCE

ABU Robocon (Third Award, Best Design Award)

June 2015

- o **Team Task:** Independently design two robots cooperating to play badminton doubles.
- o Duties included: Coordinate conversion, data acquisition and processing procedures based on Kinect for Windows v2 using C language, test the effect of illumination on Kinect depth camera.
- o Development Tools: Halcon, Microsoft Visual Studio

Robot Competition for Undergraduates in Liaoning Province (First Award)

Oct. 2014

- o Team Task: Independently design two robots cooperating to collect golf balls in the designated area and transport the collected balls to the starting position.
- o Duties included: Robot control program design, control the robot to collect golf balls by fixed route based on LPC1700 series Cortex-M3 micro-controller and μ C/OSII system (using C language).
- o Skills & devices: CAN communication, Gyroscope, Encoder

PROJECT EXPERIENCE

Intelligent Unmanned Cluster System

2017 - Present

- o Aim to construct operational support platform for the intelligent unmanned cluster system.
- o Participate in the research of multi-UAV collaborative Monocular SLAM focusing on data sharing which is part of incremental global view extension technology.

COURSES

Master

o Machine Learning (A) o Matrix Analysis and Calculation (B) o Principle of Artificial Intelligence (B) o Computational Complexity (B) o Computational Geometry (B) o Parallel Computing (B) 2014 - 2017 **Bachelor** o Object-Oriented Programming (C++) (97) o Algorithm Design and Analysis (95) o Probability Theory and Mathematical Statistics (90) o Data Structures (89) o Linear Algebra (86) HONORS AND AWARDS National University of Defense Technology 2017 - Present o Postgraduate Admission Scholarship (Nov. 2018) o Outstanding Postgraduate (June 2019) Northeastern University 2014 - 2017 o Second-class Scholarship (Apr. 2014) o Second-class Scholarship (Oct. 2014) o Outstanding Student Leader (Oct. 2014) o Third-class Scholarship (Nov. 2015) o Outstanding Student Leader (Nov. 2015) o First-class Scholarship (Oct. 2016) o Zhongtian Iron and Steel Scholarship (Second-Class) (Oct. 2016) o Second-class Scholarship (Oct. 2017) o Outstanding Graduate of Liaoning Province (Mar. 2017) REFERENCES o Prof. Dr. Dianxi Shi Email: dxshi@nudt.edu.cn Affiliation: National University of Defense Technology, Changsha, 410073, China

2017 - 2018

o Dr. Ruihao Li

Email: liruihao2008@gmail.com

Affiliation: Artificial Intelligence Research Center (AIRC), National Innovation Institute of Defense Technology(NIIDT), Beijing, 100166, China