

Ruoxiang Li | Curriculum Vitae

Kaifu District, Changsha, Hunan, China – 410073

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RESEARCH INTEREST

Visual SLAM, Event-based SLAM, Robotics, Computer Vision

EDUCATION

National University of Defense Technology (Non-military student)

Master of Engineering in Computer Science and Technology

Advisor: Prof. Dr. Dianxi Shi

Changsha, China

Sept. 2017 - June 2020

Northeastern University

Bachelor of Engineering in Internet of Things

GPA: 3.6585 / 5 (Top 15%)

Shenyang, China

Sept. 2013 - June 2017

COMPETITION EXPERIENCE

ABU Robocon (Third Award, Best Design Award)

June 2015

- **Team Task:** Independently design two robots cooperating to play badminton doubles with the robots of other teams.
- **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.
- **Development Tools:** Halcon, Microsoft Visual Studio

Robot Competition for Undergraduates in Liaoning Province (First Award)

Oct. 2014

- **Team Task:** Independently design two robots cooperating to collect golf balls in the designated area and transport the collected balls to the starting position.
- **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).
- **Skills & devices included:** CAN communication, Gyroscope, Encoder

PUBLICATIONS

- **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," IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), 2019.
- 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.
- 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.

WORK EXPERIENCE

Inspur Communication Information System Co., Ltd.

Intern

Jinan, China

July 2016 - Aug. 2016

- Duties included: Java Web development, especially the development of database interaction module
- Skills included: HTML5 and Spring/Spring MVC/Hibernate framework

HONORS AND AWARDS

National University of Defense Technology

2017 - Present

- Postgraduate Admission Scholarship (Nov. 2018)
- Outstanding Postgraduate (June 2019)

Northeastern University

2014 - 2017

- Second-class Scholarship (Apr. 2014)
- Second-class Scholarship (Oct. 2014)
- Outstanding Student Leader (Oct. 2014)
- Third-class Scholarship (Nov. 2015)
- Outstanding Student Leader (Nov. 2015)
- First-class Scholarship (Oct. 2016)
- Zhongtian Iron and Steel Scholarship (Second-Class) (Oct. 2016)
- Second-class Scholarship (Oct. 2017)
- Outstanding Graduate of Liaoning Province (Mar. 2017)

KEY SKILLS

Programming Language	C, C++, Matlab, Python, Java, YAML
Libraries	OpenCV, Eigen, PCL
Frameworks	ROS, Tensorflow
Software & Tools	CMake, Zotero, Latex, Git
Operate System	Windows, Linux

REFERENCES

- **Prof. Dr. Dianxi Shi**
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Professor, Science and Technology on Parallel and Distributed Laboratory
National University of Defense Technology, Changsha-410073, China.
Artificial Intelligence Research Center (AIRC), National Innovation Institute of Defense Technology (NIIDT), Beijing-100166, China.
Tianjin Artificial Intelligence Innovation Center (TAIIC), Tianjin-300457, China.
- **Dr. Ruihao Li**
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Dr. Ruihao Li received his Ph.D. from University of Essex, Colchester, UK.
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