

Ruoxiang Li | Curriculum Vitae

Kaifu District, Changsha, Hunan Province, China P.R. – 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 P.R.

Sept. 2017 - Present

Northeastern University

Bachelor of Engineering in Internet of Things

GPA: 3.6585 / 5 (Top 15%)

Shenyang, China P.R.

Sept. 2013 - Jun. 2017

COMPETITION EXPERIENCE

ABU Robocon (Third Award, Best Design Award)

Jun. 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 P.R.

Jul. 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 (Jun. 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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Tianjin Artificial Intelligence Innovation Center (TAIIC), Tianjin-300457, China P.R..
- **Dr. Ruihao Li**
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Dr. Ruihao Li received his Ph.D. from University of Essex, Colchester, UK.
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