

# Ruoxiang Li | Curriculum Vitae

Kaifu District, Changsha, Hunan, China – 410073

🌐 Homepage

✉ liruoxiang17@nudt.edu.cn

☎ (+86) 151 1631 9671

## RESEARCH INTEREST

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

## EDUCATION

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**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*

## WORK EXPERIENCE

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**Inspur Communication Information System Co., Ltd.**

*Intern*

**Jinan, China**

*July 2016 - Aug. 2016*

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

## COMPETITION EXPERIENCE

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**ABU Robocon (Third Award, Best Design Award)**

*June 2015*

- **Team Task:** Independently design two robots cooperating to play badminton doubles.
- **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  $\mu$ C/OSII system (using C language).
- **Skills & devices:** CAN communication, Gyroscope, Encoder

## PUBLICATIONS

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- **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.

## HONORS AND AWARDS

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### 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

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

## REFERENCES

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- **Prof. Dr. Dianxi Shi**  
dxshi@nudt.edu.cn  
Professor, State Key Laboratory of Parallel and Distributed Processing  
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**  
liruihao2008@gmail.com  
Dr. Ruihao Li received his Ph.D. from University of Essex, Colchester, UK.  
Artificial Intelligence Research Center (AIRC), National Innovation Institute of Defense Technology (NIIDT), Beijing-100166, China.  
Tianjin Artificial Intelligence Innovation Center (TAIIC), Tianjin-300457, China.