Ruoxiang Li | Curriculum Vitae

Kaifu District, Changsha, Hunan, China – 410073

☑ liruoxiang17@nudt.edu.cn □ (+86) 151 1631 9671

RESEARCH INTEREST

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

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 Shenyang, China

Bachelor of Engineering in Internet of Things Sept. 2013 - June 2017

GPA: 3.6585 / 5 (Top 15%)

WORK EXPERIENCE

Inspur Communication Information System Co., Ltd.

Jinan, China July 2016 - Aug. 2016

Intern o **Duties included:** Java Web development, the development of database interaction module.

o **Skills:** HTML5 and Spring/Spring MVC/Hibernate framework

COMPETITION EXPERIENCE

ABU Robocon (Third Award, Best Design Award)

June 2015

- o 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.
- 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

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," 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.

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)

KEY SKILLS

Programming Language C, C++, Matlab, Python, Java, YAML

LibrariesOpenCV, Eigen, PCLFrameworksROS, Tensorflow

Software & Tools CMake, Zotero, Latex, Git

Operate System Windows, Linux

REFERENCES

o Prof. Dr. Dianxi Shi

dxshi@nudt.edu.cn

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.

o Dr. Ruihao Li

liruihao2008@gmail.com

Dr. Ruihao Li received his Ph.D. from UniversityofEssex, 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.