Ruiqi Li

School of Electronic Information and Communication
Huazhong University of Science and Technology
Email: rlee@hust.edu.cn, Personal Website: rlee.netlify.com, Github: github.com/rlee719

EDUCATION

BEng. in Electronics and Information Engineering   Sept. 2017 – Sept. 2021

(Undergraduate Program for Advanced Project-based Information Science Education)

Huazhong University of Science and Technology

TOTAL GPA: 3.54
TOFEL iBT: 96

Selected Courses (Score/100):
- Linear Algebra (99), Digital Image Process (in progress), Computer Vision (in progress)
- Probability Theory and Mathematical Statistics (88), Stochastic Processes (86)
- Electromagnetic Field and Microwave Technology (90), Physics I (92)

PUBLICATION

Z. Zhou[1st], **R. Li[1st]**, Y. Gao, C. Zhang and X. Hei, "SLDNet: A Branched, Spatio-Temporal Convolution Neural Network for Detecting Solid Line Driving Violation in Intelligent Transportation Systems", *Information Communication Technologies Conference*, Mar. 2020. Under review and have passed preliminary review.
Available in rlee.netlify.com/files/SLD_paper.pdf.

J. Li, **R. Li**, Y. Zhou, J. Xian, X. Zhang and X. Hei, "Inferring Student's Attention in a Machine Learning Approach: A Feasibility Study," *IEEE International Conference on Consumer Electronics - Taiwan*, May 2019.
Available in ieeexplore.ieee.org/document/8991763.

RESEARCH INTERESTS

Computer Vision (Detection, **Segmentation** and **Attention Mechanism**)
Representation Learning, Deep Learning

PROJECT EXPERIENCE

Check more details in
Personal Website

Transportation Project   Feb. 2019 - Present
- One of three leaders among a group of 12 students. **Contract Value: 74.2K USD**
- Lead development and deployment of 3 deep learning algorithms for the public transportation system of Pingxiang city.
- Research and develop algorithms in object detection, instance segmentation and image classification (eg. CBAM, MS-RCNN); write the SLDNet paper.

Embedded Systems Course Project   Oct. 2019 - Present
- Group leader, design and implement an automatic classification trashbin.
- Train and deploy LeNet-5 in Microchip MCU(Micro Control Units) using C language.

IET Program   Apr. 2018 – Sept. 2019
- Sponsored by **National Level** Innovation and Entrepreneurship Training Program for College Students, Ministry of Education.
- Technical Leader, conduct experiments and write the ICCE-TW conference paper.

Face Landmark Project   Sept. 2018 – Jun. 2019
- Group member, participate in development of a 108 points light-weight face landmark detection algorithm for Little Lights Inc.
- Contribution: Implement program based on the code of SSD and CenterNet.

HONOR & AWARDS	Selected into Undergraduate Program for Advanced Project-based Information Science Education (Seed Class)	Jun. 2019
	HUST Scholarship in Science and Innovation	Sep. 2018
	1st Prize in HUST Mathematic Modeling Contest	Dec. 2017

SKILLS

Find, read and understand cutting-edge academic literature in Computer Vision/Deep Learning

Academic writing in English

Programming:
- Proficient skills in Python (Tensorflow/**Pytorch**/Sklearn), C and **Latex**
- Rich experience in development on Linux system
- Some experience in web development, C++ and Matlab

ADVISOR

Yayu Gao, Associate Professor
School of Electronic Information and Communication
Huazhong University of Science and Technology
yayugao@hust.edu.cn, cloud.eic.hust.edu.cn:8084/~yayugao/

Xiaojun Hei, Associate Professor
Deputy Head of Communication Engineering Department
School of Electronic Information and Communication
Huazhong University of Science and Technology
heixj@hust.edu.cn, 122.205.5.5:8084/~heixj/index_en.htm

Xinggang Wang, Associate Professor
School of Electronic Information and Communication
Huazhong University of Science and Technology
xgwang@hust.edu.cn, xinggangw.info/

Xinge You, Professor
Head of National Anti-counterfeit Engineering Research Center
School of Electronic Information and Communication
Huazhong University of Science and Technology
youxg@hust.edu.cn, eic.hust.edu.cn/professor/youxinge/