

Ruihong Qiu 邱瑞鸿

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📄 <https://ruihongqiu.github.io>

Education

- 2019–2022 **PhD student in Computer Science**, *The University of Queensland*.
(expected)
- 2014–2018 **B.E. in Detection Guidance and Control Technology**, *Beihang University*.

Publications

Rethinking the Item Order in Session-based Recommendation with Graph Neural Networks, *CIKM 2019*, Ruihong Qiu, Jingjing Li, Zi Huang, Hongzhi Yin.

Experience

- 07/2017–**Research Intern**, *Horizon Robotics Inc.*
- 06/2018
 - Working with the Reinforcement Learning team to do research on autonomous driving.
- 09/2016–**Research Student**, *LEVIR (a remote sensing image processing group in Beihang University)*.
- 05/2017
 - During the first half of this period, I began to do research and focused on scene text detection.
 - Came up with a method that uses FCN to classify the image pixel-wisely as the basic step of the pipeline in the algorithm.
 - During the latter part, I worked on remote sensing image semantic segmentation.
 - Made our own labeled data set and applied some popular algorithms on these data.
- 07–09/2016 **Algorithm Engineer Intern**, *Swie Inc.*
- My first internship and used the Deep Learning knowledge that I learned to solve a real vision problem.
 - Developed a vision detection and classification system for scolds on a PCB. We got the image of the PCB shone by lights with three colors.
 - Extract the location of the scolds by the Gerber file and crop the image of a single scold.
 - Made our own labeled data set with more than 10k images and solved the imbalance data problem.
 - With later effort, this algorithm has been used during the manufacture process.

Project

Developed a GUI image processing software.

- As I took the Digital Image Processing course in my junior year, I implemented those algorithms that I learned in the class with C++.
- Used classic MFC for the GUI part. For the algorithms, I implemented all in two ways, with or without OpenCV.

Skills

Matlab, Python, C++ , Caffe, TensorFlow.

Honors

SIGIR Student Travel Grant, *CIKM*.

The Twenty-fifth Fengru Cup Science and Technology Competition, *First Prize*.

China Undergraduate Mathematical Contest in Modeling, *First Prize*.

Beihang University Excellent Students Scholarship, *Third Prize*.