

Hailiang Zhao

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BIOGRAPHY

Currently I am a first-year Ph.D. student of College of Computer Science and Technology, Zhejiang University (<http://www.zju.edu.cn/english/>). Before my Ph.D. career, I was an undergraduate student from Wuhan University of Technology (<http://english.whut.edu.cn/>) and received my B.Eng. degree in Computer Science and Technology on June, 2019. In September 2019, I was admitted to study for a Ph.D. degree in Zhejiang University under the supervision of Prof. Shuiguang Deng (<https://person.zju.edu.cn/shuiguang>) without entrance examination.

EDUCATION

Bachelor of Engineering, Computer Science and Technology
Wuhan University of Technology, Wuhan, China

June 2019

Thesis - Research on Hand-written Digital Recognition in Edge Computing Environment

RESEARCH INTERESTS

I am interested in **Edge Computing**, **Cloud Computing** and **Mobile Computing**. Currently I am focusing on:

- **Computation Offloading.** Computation offloading is the transfer of resource intensive computational tasks to an external platform, such as a cluster, grid, or a cloud. Offloading may be necessary due to hardware limitations of a devices, such as limited computational power, storage, and energy. The resource intensive tasks may be for searching, virus scanning, image processing, artificial intelligence, computational decision making, etc.
- **Edge Intelligence.** Along with the rapid development of mobile communication technology, edge computing theory and technologies have been attracting more and more attentions from global researchers and engineers, which can significantly bridge the capacity of cloud and requirement of devices by the networks edges. With Artificial Intelligence (AI) revolutionizing almost every branch of science and technology, edge computing has generated strong interests in realizing Intelligent Edge.

PUBLICATIONS

- Yishan Chen, Shuiguang Deng, **Hailiang Zhao**, Qiang He, Yin Li and Honghao Gao, *Data-intensive Application Depolyment at Edge: A Deep Reinforcement Learning Approach*. In: **Proceedings of the 17th IEEE International Conference on Web Services (ICWS'19)**, Milan, Italy, 2019.
- **Hailiang Zhao**, Shuiguang Deng, Cheng Zhang, Wei Du, Qiang He and Jianwei Yin, *A Mobility-aware Cross-edge Computation Offloading Framework for Partitionable Applications*. In: **Proceedings of the 17th IEEE International Conference on Web Services (ICWS'19)**, Milan, Italy, 2019. (Best Student Paper)
- Wei Du, Tao Lei, Qiang He, Wei Liu, Qiwan Lei, **Hailiang Zhao** and Wei Wang, *Service Capacity Enhanced Task Offloading and Resource Allocation in Multi-Server Edge Computing Environment*.

In: **Proceedings of the 17th IEEE International Conference on Web Services (ICWS'19)**, Milan, Italy, 2019.

- Wei Du, Qiwan Lei, Qiang He, Wei Liu, Feifei Chen, Lei Pan, Tao Lei and **Hailiang Zhao**, *Multiple Energy Harvesting Devices Enabled Joint Computation Offloading and Dynamic Resource Allocation for Mobile-Edge Computing Systems*. In: **Proceedings of the 17th IEEE International Conference on Web Services (ICWS'19)**, Milan, Italy, 2019.
- Cheng Zhang, **Hailiang Zhao** and Shuiguang Deng, *A Density-based Offloading Strategy for IoT Devices in Edge Computing Systems*. In: **IEEE Access**, doi: 10.1109/ACCESS.2018.2882452.
- **Hailiang Zhao**, Wei Du, Wei Liu, Tao Lei and Qiwan Lei, *QoE Aware and Cell Capacity Enhanced Computation Offloading for Multi-Server Mobile Edge Computing Systems with Energy Harvesting Devices*. In: **Proceedings of the 15th IEEE International Conference on Ubiquitous Intelligence and Computing (UIC'18)**, Guangzhou, China, 2018.

HONORS

Best Student Paper Award of the 2019 IEEE International Conference on Web Service, July 2019

Outstanding Graduate of Wuhan University of Technology, Jun 2019

The Excellence Award of Wuhan University of Technology, Oct 2018