**Xiang Liu**

**MS Student**

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**About me**

I am a first-year MS student in the [Department of Computer Science](it.ouc.edu.cn), [Ocean University of China](http://www.ouc.edu.cn), advised by [Prof. Guoqiang Zhong](https://it.ouc.edu.cn/2019/0527/c16101a248553/page.htm). In particularly, I also work in the [Innovation Center](innovation.ouc.edu.cn) for some engineering AI projects and research. I mainly interest in the research of neural networks lightweighting, also experienced in multi-object detection and tracking. Recently, I am focusing on edge AI research and deployment, such as the optimization of MNN for Raspberry Ri, OpenVino for Neural Compute Stick. I obtained my BS degree (2020) in Ocean University of China, where I worked on deep networks compression and acceleration. During the summer of 2019, I went to [Institute of Advanced Study](https://ias.szu.edu.cn/) in [Shenzhen University](http://www.szu.edu.cn) (study in quantitative finance) and [Pohang University of Science and Technology](postech.ac.kr) in South Korea for exchanges.

**News:**

2020.11: one paper is accepted by IEEE Access.

2020.10: one paper is accepted by MDPI Sensors.

2020.07: graduation work (research on quantum clustering algorithm) was awarded as excellent thesis.

2019.11: one paper is accepted by Springer Cognitive Computation.

2019.11: one paper is accepted by IEEE Access.

2019.09: received national second prize of the Huawei Cup: Intelligent Design Competition for University Student.

2019.08: received national second prize of the Marine Vehicle Design and Production Competition.

2019.07: received conditional offer from Shenzhen (Univesity) Institute of Advanced Study.

**Publications:**

**Neural Networks Compression and Acceleration**

Li-Na Wang, Wenxue Liu, Xiang Liu, Guoqiang Zhong, Partha Pratim Roy, Junyu Dong, and Kaizhu Huang. "Compressing Deep Networks by Neuron Agglomerative Clustering." Sensors 20, no. 21 (2020): 6033. [[pdf](https://www.mdpi.com/1424-8220/20/21/6033/pdf)]

Xiang Liu, Li-Na Wang, Wenxue Liu, and Guoqiang Zhong. "Incremental Layers Resection: A Novel Method to Compress Neural Networks." IEEE Access 7 (2019): 172167-172177. [[pdf](https://ieeexplore.ieee.org/iel7/6287639/8600701/08895799.pdf)]

Guoqiang Zhong, Wenxue Liu, Hui Yao, Tao Li, Jinxuan Sun, and Xiang Liu. "Merging Similar Neurons for Deep Networks Compression." Cognitive Computation (2020): 1-12. [[link](https://link.springer.com/article/10.1007/s12559-019-09703-6)]

**Underwater Vision System & Multi-Object Tracking**

Xinliang Zhang, Huimin Zeng, Xiang Liu, Zhibin Yu, Haiyong Zheng, and Bing Zheng. "In Situ Holothurian Noncontact Counting System: A General Framework for Holothurian Counting." *IEEE Access* 8 (2020): 210041-210053. [[pdf](https://ieeexplore.ieee.org/iel7/6287639/8948470/09261353.pdf)]

**Awards:**

Excellent Bachelor's Thesis.

Excellent degree for the first OUC Innovation Guidance Special Project.

National second prize of the Huawei Cup: Intelligent Design Competition for University Student.

National second prize of the Marine Vehicle Design and Production Competition.

Ranked 4th in north China in Future Cup: College AI Challenge.

Academic Excellence Scholarship (twice).

Science and Technology Innovation Scholarship.

**Professonal Activities:**

CCF student member;

CAAI student member;

Former academic director of Intelligent Data Analysis Club, OUC;

Former national defense student of people navy;

Former starbucks barista.