Xiang Liu
MS Student
{Department of Computer Science; Innovation Center, Xingzhi Building}, Ocean University of China.
Office: B410 room in the south building of Information College; Innovation Center in Xingzhi building.
Email: liuxiang@stu.ouc.edu.cn, Github, Google Scholar

About me

I am a first-year MS student in the Department of Computer Science, Ocean University of China, advised by Prof. Guoqiang Zhong. In particularly, I also work in the Innovation Center 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 in Shenzhen University (study in quantitative finance) and Pohang University of Science and Technology 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]

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]

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]

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]

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.