YU PAN

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EDUCATION

Harbin Institute of Technology, Shenzhen *Feb. 2021 - Present*
Ph.D. Candidate in Computer Science and Technology

University of Electronic Science and Technology of China *Sept. 2017 - June 2020*
M.E. in Computer Science and Technology

University of Electronic Science and Technology of China *Sept. 2013 - June 2017*
B.E. in Automation

RESEARCH EXPERIENCE

Statistical Machine Intelligence Learning Laboratory, HITSZ *Sept. 2017 - Present*

· Adviser: Zenglin Xu
· Focus: Deep Neural Networks, Tensor Decomposition
· **Project**: Investigate combinations of tensor decomposition technique and deep neural networks on a variety of tasks, including model compression, defending adversarial example, etc.

Computer Vision Center, Tencent AI Lab, Shenzhen *July 2019 - Oct. 2019*

· Adviser: Baoyuan Wu
· Focus: Adversarial Example, Pruning
· **Project**: Explore an efficient pruning method to improve the robustness of deep neural networks, mainly on defending adversarial examples.

RESEARCH ACTIVITIES (∗ REPRESENTS EQUAL CONTRIBUTION)

Publications

· **Yu Pan**, Jing Xu, Maolin Wang, Jinmian Ye, Fei Wang, Kun Bai, and Zenglin Xu. ompressing Recurrent Neural Networks with Tensor Ring for Action Recognition. AAAI, 2019.

· **Yu Pan**∗, Nannan Li∗, Yaran Chen, Zixiang Ding, Dongbin Zhao, and Zenglin Xu. Heuristic Rank Selection with Progressively Searching Tensor Ring Network. Complex & Intelligent Systems, 2021.

· **Yu Pan**, Maolin Wang and Zenglin Xu. TedNet: A Pytorch Toolkit for Tensor Decomposition Networks. Neurocomputing, 2022.

· Jing Xu, **Yu Pan**, Xinglin Pan, Kun Bai, Steven Hoi, Zhang Yi, and Zenglin Xu. RegNet: Self-Regulated Network for Image Classification. Conditionally Accept in TNNLS, 2022.

· Maolin Wang, Chenbin Zhang, **Yu Pan**, Jing Xu, and Zenglin Xu. Tensor Ring Restricted Boltzmann Machines. IJCNN, 2019.

· Maolin Wang, Zeyong Su, Xu Luo, **Yu Pan**, Shenggen Zheng, and Zenglin Xu. Concatenated Tensor Networks for Deep Multi-Task Learning. ICONIP, 2020.

In Process

· **Yu Pan**, Zeyong Su, Ao Liu, Jingquan Wang, Nannan Li, and Zenglin Xu. A Unified Weight Initialization Paradigm for Tensorial Convolutional Neural Networks. Preparing for ICML, 2022.

· **Yu Pan***, Maolin Wang*, Xiangli Yang, Guangxi Li, and Zenglin Xu. Investigating Tensor Neural Network: A Survey. Preparing for TNNLS, 2022.

· Xinglin Pan, Jing Xu, **Yu Pan**, and Zenglin Xu. AFINets: Attentive Feature Integration Networks for Image Classification. Preparing for NEURAL NETWORKS, 2022.

· Jingquan Wang, Jing Xu, **Yu Pan**, and Zenglin Xu. Semantically Proportional Patchmix for Few-Shot Learning. Preparing for ICASSP, 2022.

· Langzhang Liang, Shiyi Chen, Cuiyun Gao, Shishi Duan, **Yu Pan**, Junjin Zheng, Lei Wang, and Zenglin Xu. Graph Partner Neural Networks for Semi-Supervised Learning on Graphs. Submitting in WWW, 2022.

Others

· Reviewer of ICLR 2022, NeurIPS 2021, ICML 2021, NeurIPS 2020.

· Published several Python packages and an image annotation tool.

· Attended the AAAI 2019 Conference at Hawaii in 2019.

· Attended short-term communication in Japan in 2016.

AWARDS & SCHOLARSHIPS

The Outstanding Graduate Award, UESTC. 2019-2020

The Excellence in Student Award, UESTC. 2018-2019

The Major Academic Scholarship for Graduate Students, UESTC. 2018-2019