YU PAN

HIT Campus of University Town of Shenzhen, Shenzhen, China ⋄ P.C. 518055

(+86)13980449598 ⋄ https://yupan.me ⋄ iperryuu@gmail.com

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. Compressing Recurrent Neural Networks with Tensor Ring for Action Recognition. Accept in AAAI 2019.
· **Yu Pan***, Nannan Li*, Yaran Chen, Zixiang Ding, Dongbin Zhao, and Zenglin Xu. Heuristic Rank Selection with Progressively Searching Tensor Ring Network. Accept in Complex & Intelligent Systems 2021.
· **Yu Pan**, Maolin Wang and Zenglin Xu. TedNet: A Pytorch Toolkit for Tensor Decomposition Networks. Accept in 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. Accept in IJCNN 2019.
· Maolin Wang, Zeyong Su, Xu Luo, **Yu Pan**, Shenggen Zheng, and Zenglin Xu. Concatenated Tensor Networks for Deep Multi-Task Learning. Accept in 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 (6665 in NeurIPS 2021).

· **Yu Pan***, Maolin Wang*, Xiangli Yang, Guangxi Li, and Zenglin Xu. Investigating Tensor Neural Network: A Survey. Preparing for TNNLS.
· Xinglin Pan, Jing Xu, **Yu Pan**, and Zenglin Xu. AFINets: Attentive Feature Integration Networks for Image Classification. Preparing for NEURAL NETWORKS.
· 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