

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: Prof. 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: Prof. 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.

PUBLICATIONS (* represents equal contribution)

- **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". AAAI, 2019.
- **Yu Pan**, Maolin Wang, and Zenglin Xu. "TedNet: A Pytorch Toolkit for Tensor Decomposition Networks". Neurocomputing, 2022.
- **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.
- Jing Xu, **Yu Pan**, Xinglin Pan, Kun Bai, Steven Hoi, Zhang Yi, and Zenglin Xu. "RegNet: Self-Regulated Network for Image Classification". TNNLS, 2022.
- Jingquan Wang, Jing Xu, **Yu Pan**, and Zenglin Xu. "Semantically Proportional Patchmix for Few-Shot Learning". ICASSP, 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"*. Submitting in ICML, 2022.
- **Yu Pan***, Maolin Wang*, Xiangli Yang, Guangxi Li, and Zenglin Xu. *"Investigating Tensor Neural Network: A Survey"*. Preparing for TKDE, 2022.
- Xinglin Pan, Jing Xu, **Yu Pan**, and Zenglin Xu. *"AFINets: Attentive Feature Integration Networks for Image Classification"*. Submitting in NEURAL NETWORKS, 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 KDD, 2022.

RESEARCH ACTIVITIES

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