

Jingyang Xiang

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Education

Zhejiang University M.Eng. Student in Electronic Information • Advisor: Yong Liu	2022/09 – 2025/03 (expected) Hangzhou, China
Zhejiang University of Technology B.E. in Electrical Engineering and Automation • Graduated with the highest distinction. • Advisor: Qi Xuan	2018/09 – 2022/06 Hangzhou, China

Research Interests

Machine Learning, Binary Neural Network, Network Pruning

Publications

[1] **Jingyang Xiang**, Siqi Li, Junhao Chen, Zhuangzhi Chen, Tianxin Huang, Linpeng Peng, Yong Liu. “MaxQ: Multi-Axis Query for N:M Sparsity Network”. *The IEEE/CVF Conference on Computer Vision and Pattern Recognition 2024 (CVPR2024)*.

[2] **Jingyang Xiang**, Siqi Li, Jun Chen, Guang Dai, Shipeng Bai, Yukai Ma, Yong Liu. “SUBP: Soft Uniform Block Pruning for 1xN Sparse CNNs Multithreading Acceleration”. *The 37th Conference on Neural Information Processing Systems (NeurIPS2023)*.

[3] Zhuangzhi Chen*, **Jingyang Xiang***, Yao Lu, Qi Xuan, Zhen Wang, Guanrong Chen, Xiaoniu Yang. “RGP: Neural Network Pruning Through Regular Graph With Edges Swapping”. *IEEE Transactions on Neural Networks and Learning Systems (TNNLS)*. (* Equal contribution)

[4] Zhuangzhi Chen*, Hui Cui*, **Jingyang Xiang**, Kunfeng Qiu, Liang Huang, Shilian Zheng, Shichuan Chen, Qi Xuan, Xiaoniu Yang. “SigNet: A Novel Deep Learning Framework for Radio Signal Classification”. *IEEE Transactions on Cognitive Communications and Networking (TCCN)*.

[5] Zuohui Chen, Renxuan Wang, **Jingyang Xiang**, Yue Yu, Xin Xia, Shouling Ji, Qi Xuan, Xiaoniu Yang. GGT: Graph-Guided Testing for Adversarial Sample Detection of Deep Neural Network. *Computers & Security*.

[6] **Jingyang Xiang**, Zuohui Chen, Linpeng Peng, Siqi Li, Yuanyuan Ding, Huifeng Wu, Yong Liu. “Overcoming Oscillations in N:M Sparse Network Training”. *The Forty-first International Conference on Machine Learning (ICML2024)*. (under review)

[7] **Jingyang Xiang**, Zuohui Chen, Siqi Li, Qing Wu, Yong Liu. “OvSW: Overcoming Silent Weights for Accurate Binary Neural Networks”. Submitted to *The 18th European Conference on Computer Vision ECCV 2024 (ECCV2024)*. (under review)

[8] **Jingyang Xiang**, Zhuangzhi Chen, Jianbiao Mei, Siqi Li, Jun Chen, Lingbo Cheng, Yong Liu. “CR-SFP: Learning Consistent Representation for Soft Filter Pruning”. Submitted to *IEEE Transactions on Circuits and Systems for Video Technology (TCSVT)*. (under review)

[9] Jun Chen, **Jingyang Xiang**, Tianxin Huang, Xiangrui Zhao, Yong Liu. “Hyperbolic Binary Neural Network”. Submitted to *IEEE Transactions on Neural Networks and Learning Systems (TNNLS)*. (under review)

Honors & Awards

• Excellent Developer Evangelist, MindSpore	2021
• Provincial Outstanding Undergraduates, Zhejiang University of Technology	2022
• Provincial Government Scholarship, Zhejiang University of Technology	2019 - 2021

Open Source Experience

MindSpore & Ascend, Huawei • Reproducing papers about computer vision based on MindSpore • Writing blogs about how to use MindSpore	2020/09 – now
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Skills

Programming Languages: Python, C/C++
Tech Skills: PyTorch, MindSpore, TensorFlow, Linux, Git, Latex