

Yefei He

Email: billhe@zju.edu.cn | **Telephone:** +86188-8892-2934

Address: Yuquan Campus, Zhejiang University, Hangzhou, China

Interests: Computer Vision, Model Compression; Model Quantization



Education Background

2017/09-2021/06	Zhejiang University	Bachelor of Instrument Science
2021/09- present	Zhejiang University	Ph.D. Student of Instrument Science
Language:	CET-6: 554	TOEFL: 98/120
GPA:	3.89/4	

Publications

- Yefei He, Jing Liu, Weijia Wu, Hong Zhou, Bohan Zhuang; EfficientDM: Efficient Quantization-Aware Fine-Tuning of Low-Bit Diffusion Models, **ICLR 2024 (Spotlight)**.
- Yefei He, Luping Liu, Jing Liu, Weijia Wu, Hong Zhou, Bohan Zhuang; PTQD: Accurate Post-Training Quantization for Diffusion Models, **NeurIPS 2023**.
- Yefei He, Zhenyu Lou, Luoming Zhang, Jing Liu, Weijia Wu, Hong Zhou, Bohan Zhuang; BiViT: Extremely Compressed Binary Vision Transformers, **ICCV 2023**.
- Yefei He, Luoming Zhang, Weijia Wu and Hong Zhou; Binarizing by Classification: Is Soft Function Really Necessary?. IEEE Transactions on Circuits and Systems for Video Technology, 2023.

Project Experience

2022/3-2022/4

Horizon Robotics

—— **Gaussian filtering acceleration algorithm based on ARM NEON instruction set**

- Implemented the $5 * 5$ and $3 * 3$ gaussian and mean filter cores using ARM-NEON vector instruction set, which achieves up to 3 times faster than OpenCV.

2020/9-2021/8

National Key R&D Program

—— **A new artificial intelligence algorithm and its application in neurodegenerative diseases**

- Trained a lightweight pose model, which is helpful for the deployment of the model in low computing power devices.
- Deployed the human pose estimation model and gait recognition model to Huawei shengteng edge server, and solved the problem of model transformation and deployment.

Honors

2021-2022: Graduate National Scholarship

2019-2020: First-class Scholarship of Zhejiang University

Zhejiang Provincial Government Scholarship