Zizheng Pan

https://zizhengpan.github.io

EDUCATION

Monash University

Ph.D. in Computer Science

Melbourne, Australia Jan 2021 – 2024

Mobile: +61-0405882881

Email: zizheng.pan@monash.edu

The University of Adelaide

M.S. in Computer Science

Adelaide, Australia Jul 2018 - Jul 2020

Harbin Institute of Technology

B.E. in Software Engineering

Weihai, China Sep 2015 - Jun 2019

Research Interests

Deep Learning, Efficient and Scalable Vision, Model Compression, Vision Transformers.

PUBLICATIONS

(* denotes equal contribution)

- A Survey on Efficient Training of Transformers,
 Bohan Zhuang, Jing Liu, <u>Zizheng Pan</u>, Haoyu He, Yuetian Weng, Chunhua Shen International Joint Conference on Artificial Intelligence (IJCAI), 2023.
- Stitchable Neural Networks,

Zizheng Pan, Jianfei Cai, Bohan Zhuang.

Conference on Computer Vision and Pattern Recognition (CVPR), 2023. (Highlight)

- Dynamic Focus-aware Positional Queries for Semantic Segmentation,
 Haoyu He, Jianfei Cai, <u>Zizheng Pan</u>, Jing Liu, Jing Zhang, Dacheng Tao, Bohan Zhuang.
 Conference on Computer Vision and Pattern Recognition (CVPR), 2023
- Fast Vision Transformers with HiLo Attention.

Zizheng Pan, Jianfei Cai, Bohan Zhuang.

Conference on Neural Information Processing Systems (NeurIPS), 2022. (Spotlight)

- EcoFormer: Energy-Saving Attention with Linear Complexity.

 Jing Liu*, **Zizheng Pan***, Haoyu He, Jianfei Cai, Bohan Zhuang.

 Conference on Neural Information Processing Systems (**NeurIPS**), 2022. (Spotlight)
- An Efficient Spatio-Temporal Pyramid Transformer for Action Detection. Yuetian Weng, **Zizheng Pan**, Mingfei Han, Xiaojun Chang, Bohan Zhuang. In European Conference on Computer Vision (**ECCV**), 2022.
- Less is More: Pay Less Attention in Vision Transformers.
 Zizheng Pan, Bohan Zhuang, Haoyu He, Jing Liu, Jianfei Cai.
 In AAAI Conference on Artificial Intelligence (AAAI), 2022.
- Scalable Visual Transformers with Hierarchical Pooling.
 Zizheng Pan, Bohan Zhuang, Jing Liu, Haoyu He, Jianfei Cai.
 In International Conference on Computer Vision (ICCV), 2021.
- The Road to Know-Where: An Object-and-Room Informed Sequential BERT for Indoor Vision-Language Navigation.

Yuankai Qi, **Zizheng Pan**, Yicong Hong, Ming-Hsuan Yang, Anton van den Hengel, Qi Wu. In International Conference on Computer Vision (**ICCV**), 2021.

Object-and-Action Aware Model for Visual Language Navigation.
 Yuankai Qi, Zizheng Pan, Shengping Zhang, Anton van den Hengel, Qi Wu.
 In European Conference on Computer Vision (ECCV), 2020.

TECHNICAL REPORT

- Mesa: A Memory-saving Training Framework for Transformers, on arXiv. **Zizheng Pan**, Peng Chen, Haoyu He, Jing Liu, Jianfei Cai, Bohan Zhuang.
- Pruning Self-attentions into Convolutional Layers in Single Path, on arXiv. Haoyu He, Jing Liu, **Zizheng Pan**, Jianfei Cai, Jing Zhang, Dacheng Tao, Bohan Zhuang.

SELECTED AWARDS

• Google Travel and Conference Grants	Apr 2023
Monash Graduate Scholarship	Oct 2020
• Adelaide Summer Research Scholarship	Apr 2019
• Outstanding Graduate in Harbin Institute of Technology	Jun 2019

TEACHING EXPERIENCE

• FIT 5201 - Machine Learning, TA

Feb 2022 - Nov 2022

Professional Activities

• Conference Reviewer: CVPR 2022/2023, ICCV 2021/2023, ECCV 2022, NeurIPS 2022/2023

SKILLS

- Language: English, Chinese
- Coding: Python, PyTorch, Git, CUDA