Zhizhong Huang

 Github | Homepage | zzhuang19@fudan.edu.cn | Google Scholar

SUMMARY

I am a last-year Ph.D. student at Fudan University advised by Prof. Junping Zhang and Dr. Hongming Shan. Previously, I got my bachelor's degree from Sichuan University in 2019. My main research interests include representation learning, unsupervised/semi-supervised learning, and generative models. I am highly self-motivated, of great passion/coding skills, and able to work independently.

EDUCATION

2019 - 2024	Ph.D. candidate in Computer Science at **Fudan University**, Shanghai, China.
2015 - 2019	Bachelor in Software Engineering at **Sichuan University**, Chengdu, China. GPA: 3.71/4.0 (top 4%).

HONORS AND AWARDS

2016 - 2017	National Scholarship.
2017 - 2018	National Scholarship.
2020 - 2021	National Scholarship.
2022 - 2023	National Scholarship.
2021	Second prize of CCF University Student Acaemic Show (PhD Group) Chinese Link

SELECTED PUBLICATIONS

Journal

- **Zhizhong Huang**, Junping Zhang and Hongming Shan. "When Age-Invariant Face Recognition Meets Face Age Synthesis: A Multi-Task Learning Framework and A New Benchmark." IEEE Transactions on Pattern Analysis and Machine Intelligence (**TPAMI**) 2022. Code | arXiv

- **Zhizhong Huang**, Jie Chen, Junping Zhang and Hongming Shan. "Learning Representation for Clustering via Prototype Scattering and Positive Sampling." IEEE Transactions on Pattern Analysis and Machine Intelligence (**TPAMI**) 2022. Code | arXiv

- **Zhizhong Huang**, Shouzhen Chen, Junping Zhang, and Hongming Shan. "PFA-GAN: Progressive Face Aging with Generative Adversarial Network." IEEE Transactions on Information Forensics and Security (**TIFS**) 2021. Code | arXiv

- **Zhizhong Huang**, Junping Zhang, Yi Zhang, and Hongming Shan. "DU-GAN: Generative Adversarial Networks with Dual-Domain U-Net Based Discriminators for Low-Dose CT Denoising." IEEE Transactions on Instrumentation and Measurement (**TIM**) 2021. Code | arXiv

Conference

- **Zhizhong Huang**, Siteng Ma, Junping Zhang, and Hongming Shan. "Adaptive Nonlinear Latent Transformation for Conditional Face Editing." International Conference on Computer Vision (**ICCV**) 2023. Code | arXiv

- **Zhizhong Huang**, Junping Zhang, and Hongming Shan. "Twin Contrastive Learning with Noisy Labels." Proceedings of IEEE/CVF Conference on Computer Vision and Pattern Recognition (**CVPR**) 2023. Code | arXiv

- **Zhizhong Huang**, Junping Zhang, and Hongming Shan. "When Age-Invariant Face Recognition Meets Face Age Synthesis: A Multi-Task Learning Framework." Proceedings of IEEE/CVF Conference

on Computer Vision and Pattern Recognition (**CVPR Oral**) 2021. ⏺ Code | ⏳ arXiv

- **Zhizhong Huang**, Shouzhen Chen, Junping Zhang, and Hongming Shan. "AgeFlow: Conditional Age Progression and Regression with Normalizing Flows." International Joint Conference on Artificial Intelligence (**IJCAI**) 2021. ⏺ Code | ⏳ arXiv

Preprint

- Jiaqi Gao, **Zhizhong Huang**, Yiming Lei, James Z. Wang, Fei-Yue Wang and Junping Zhang. "S2FPR: Crowd Counting via Self-Supervised Coarse to Fine Feature Pyramid Ranking." ⏺ Code | ⏳ arXiv

PROJECTS

Pytorch-openpose (over 1.7k stars) ⏺ Github
Pytorch implementation of openpose including Hand and Body Pose Estimation.

Precipitation-Nowcasting (472 stars) ⏺ Github
Implemented a pytorch-based encoder-forecaster model with RNNs including (TrajGRU, ConvLSTM) to do precipitation nowcasting.

Torch clustering ⏺ Github
A pure PyTorch implementation of kmeans and GMM with distributed clustering.

SKILLS AND SERVICES

English   CET-6
Reviewer Top Conferences such as ICML, NIPS, CVPR, *etc.*
Coding   Python, PyTorch, *etc.*