Zhizhong Huang

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SUMMARY

I am a fourth-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 unsupervised/semi-supervised learning, generative model and biometrics, especially face-related applications. I am highly self-motivated, of great passion/coding skills, and able to work independently.

I am expected to graduate in June 2024. I am seeking a postdoctoral position, please do not hesitate to let me know of any potential openings or relevant information.

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.

Second prize of CCF University Student Acaemic Show (PhD Group) # Chinese Link

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.
- 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.
- 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.
- 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.
- Weiyi Yu, **Zhizhong Huang**, Junping Zhang and Hongming Shan. "SAN-Net: Learning Generalization to Unseen Sites for Stroke Lesion Segmentation with Self-Adaptive Normalization." Computers in Biology and Medicine (**CIBM**) 2023.
- Yuan Li, Zhizhong Huang, Xiaoai Dong, Weibo Liang, Hui Xue, Lin Zhang, Yi Zhang, and Zhenhua Deng. "Forensic age estimation for pelvic X-ray images using deep learning." European Radiology 2019. Equal contributions.

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.
- 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.
- 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.
- 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.
- Zhizhong Huang, Junping Zhang, and Hongming Shan. "RoutingGAN: Routing Age Progression and Regression with Disentangled Learning." Proceedings of IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP) 2021.
- Mingliang Dai, **Zhizhong Huang**, Jiaqi Gao, Hongming Shan, Junping Zhang. "Cross-head Supervision for Crowd Counting with Noisy Annotations." Proceedings of IEEE International Conference on Acoustics, Speech and Signal Processing (**ICASSP**) 2023.
- Haiping Zhu, **Zhizhong Huang**, Hongming Shan, and Junping Zhang. "Look globally, age locally: Face aging with an attention mechanism." Proceedings of IEEE International Conference on Acoustics, Speech and Signal Processing (**ICASSP**) 2020.

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.

Last updated: July 15, 2023