


黄智忠

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教育

2019 - present **复旦大学** 计算机科学博士在读, 上海.
2015 - 2019 **四川大学** 软件工程本科, 成都. GPA: 3.71/4.0 (top 4%).

荣誉

2016 - 2017 国家奖学金.
2017 - 2018 国家奖学金.
2020 - 2021 国家奖学金.
2021 CCF 优秀大学生学术秀 博士组 二等奖  [中文链接](#)

论文发表

期刊

- **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](#)
- 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.  [Code](#) |  [DOI](#)
- Yuan Li, **Zhizhong Huang**, Xiaoi 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.  [DOI](#)

会议

- **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](#)
- **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. [arXiv](#)
- 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. [Code](#) | [arXiv](#)
- 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. [Code](#) | [arXiv](#)

预印本

- 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](#)

开源项目

Pytorch-openpose (超过 1.5k stars)

[Github](#)

基于 PyTorch 的 openpose 实现，包括手势和肢体姿态估计。

Precipitation-Nowcasting (445 stars)

[Github](#)

基于 PyTorch 的雷达回波降水预测，实现了一个带 TrajGRU，ConvLSTM 的 encoder-forecaster。

Torch clustering

[Github](#)

基于 PyTorch 的 k-means 和 GMM 聚类。

技能和学术服务

英语 CET-6

审稿人 顶级会议如 ICML, NIPS, CVPR 等.

编程 Python, PyTorch 等.

Last updated: 2023 年 3 月 25 日