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**, 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 29, no. 5 (2019): 2322-2329 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.

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