

陈钊民

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个人介绍

温州大学副教授, 全球前 2% 顶尖科学家, 浙江省青年托举人才, 温州市科技领军英才。

工作背景

- 温州大学, 计算机与人工智能学院, 副教授, 硕导 2021.6 - 至今
- 北京旷视科技有限公司, 南京研究院 2018.2 - 2021.4
- 温州市中心医院-杭电智慧医疗实验室, 特聘专家 2024.6-至今

教育背景

- 南京大学, 计算机科学与技术系, 计算机科学与技术 (博士) 2016.9 - 2021.6
- 湖南大学, 电气与信息工程学院, 电气工程及其自动化 (学士) 2012.9 - 2016.6

研究领域

智慧医疗、人工智能、垂直领域大模型

课题组情况

课题组同学根据自身能力进行培养, 分为科研型和项目型。

课题组目前和温州医科大学附属第一医院和附属眼视光医院开展深度合作, 课题组同学能接触到目前最前沿的医学垂直领域模型。此外, 课题组同学还能发表计算机顶级学术论文 (CVPR、ACMMM 等), 优秀的同学可拥有和 985/211 毕业生相当的简历。

课题组每年有 2-3 名研究生名额, 欢迎踏实肯学的同学报考!

学生培养

- 指导本校本科生 4 名, 发表中科院二区和三区文章各一篇, EI 会议论文一篇。
- 指导本校研究生 8 名, 发表 CCF-A 类会议文章两篇, 中科院二区文章 2 篇, 一区文章 1 篇。
- 指导外校研究生 4 名, 发表中科院一区文章 2 篇, 二区文章 2 篇。
- 目前毕业两名学生, 一名成功进入市级移动公司, 一名被南开大学录取读博。

科研成果

部分论文:

- Z.-M. Chen**, X. Huang, Y. Ge, Y. Li. SFR-Net: Steering-Fusion-Refining Network in Multi-label Zero-Shot Sewer Defect Detection[C]//IEEE Conference on Computer Vision and Pattern Recognition (CVPR). 2026, in press (CCF-A).
- Z.-M. Chen**, Q. Cui, X. Zhang, R. Deng, C. Xia, S. Lu. Towards Gradient Equalization and Feature Diversification for Long-Tailed Multi-Label Image Recognition[J]. IEEE Transactions on Multimedia (TMM), 2025, in press (中科院一区).
- Z. Liu, **Z.-M. Chen***, S. Teng, H. Chen. Style adaptation for avoiding semantic inconsistency in Unsupervised Domain Adaptation medical image segmentation[J]. Biomedical Signal Processing and Control, 2025, 105: 107573. (中科院二区)
- Z.-M. Chen**, X. Jin, Y. Ge*, S. Chan. In Pursuit of Causal Label Correlations for Multi-label Image Recognition[C]//Neural Information Processing Systems (NeurIPS), 2024 (CCF-A).
- Z.-M. Chen**, X. Jin, S. Chan. SiSe: Simultaneous and Sequential Transformers for Multi-Label Activity Recognition[J]. Pattern Recognition (PR), 2024 (中科院一区).
- Jie Huang, **Zhao-Min Chen***, Xiaoqin Zhang, Yisu Ge, Lusi Ye, Guodao Zhang, Huiling Chen. Label Decoupling and Reconstruction: A Two-Stage Training Framework for Long-tailed Multi-label Medical Image Recognition. ACM MM, 2024 (CCF-A).
- Zhao-Min Chen**, Quan Cui, Ruoxi Deng, Jie Hu, Guodao Zhang. Modeling Label Correlations with Latent Context for Multi-Label Recognition. European Conference on Computer Vision (ECCV). 2024 (CCF-B).

- J. Li, J. Wang, F. Lin, W. Wu, **Z.-M. Chen***, AA. Heidari, H. Chen*. DSEUNet: A lightweight UNet for dynamic space grouping enhancement for skin lesion segmentation[J]. Expert Systems with Applications, 2024: 124544 (中科院一区).
- J. Li, P. Ding, F. Lin, **Z. Chen***, A. A. Heidari, H. Chen*. UNeSt: A fast segmentation network for colorectal polyps based on MLP and deep separable convolution[J]. Biomedical Signal Processing and Control (BSPC), 2025, 100: 107165 (中科院二区).
- **Zhao-Min Chen**, Yifan Liao, Xingjian Zhou, Wenyao Yu, Guodao Zhang, Yisu Ge, Tan Ke, Keqing Shi. Pancreatic cancer pathology image segmentation with channel and spatial long-range dependencies. CIBM, 2024. (中科院二区)
- Yisu Ge, Ruyu Liu, Guodao Zhang, Mohammad Sh Daoud, Qiwen Zhang, Xuecai Huang, Abdulilah Mohammad Mayet, **Zhao-Min Chen***, Shike He. High-Machting and Low-Cost Realization of the FHN Neuron Model on Reconfigurable FPGA Board. TBCS, 2023. (中科院二区)
- Sixian Chan, Minming Yu, **Zhaomin Chen***, Jiapa Mao, Cong Bai. Regional contextual information modeling for Small Object Detection on highways. TIM, 2023. (中科院二区)
- Sixian Chan, Yuan Wang, Yanjing Lei, Xu Cheng, **Zhao-Min Chen**, Wei Wu. Asymmetric Cascade Fusion Network for Building Extraction. TGRS, 2023. (中科院一区)
- Guodao Zhang, Haiyang Ye, Xiaoyun Gao, Ruyu Liu, Xiuting Tao, Genfu Yang, Jian Zhou, **Zhao-Min Chen***. BICANet: LiDAR Point Cloud Classification Network Based on Coordinate Attention And Blueprint Separation Involution Neural Network. IEEE Sensors Journal, 2023. (中科院二区)
- Ruoxi Deng, **Zhao-Min Chen**, Huiling Chen, Jie Hu. Learning to refine object boundaries. Neurocomputing, 2023. (中科院二区)
- **Zhao-Min Chen**, Xin Jin, Xiaoqin Zhang, et al. DIM: long-tailed object detection and instance segmentation via dynamic instance memory. Machine Learning: Science and Technology, 2023. (中科院二区)
- Yisu Ge, **Zhao-Min Chen**, Guodao Zhang, et al. Unsupervised Domain Adaptation via Style Adaptation and Boundary Enhancement for Medical Semantic Segmentation. Neurocomputing, 2023. (中科院二区)
- Chaoqun Xia, Shuhan Chen, Xiaoqin Zhang, **Zhao-Min Chen**, and Zhiyong Pan. Infrared small target detection via dynamic image structure evolution. TGRS, 2022. (中科院一区)
- **Zhao-Min Chen**, Quan Cui, Borui Zhao, Renjie Song, and Osamu Yoshie. SST: Spatial and Semantic Transformers for Multi-label Image Recognition. IEEE Transactions on Image Processing (TIP), 2022. (图像处理国际顶级期刊, 中科院一区, CCF-A 类期刊)
- **Zhao-Min Chen**, Xin Jin, Borui Zhao, Xiaoqin Zhang and Yanwen Guo. HCE: Hierarchical Context Embedding for Region-based Object Detection. IEEE Transactions on Image Processing (TIP), 2021. (图像处理国际顶级期刊, 中科院一区, CCF-A 类期刊)
- **Zhao-Min Chen**, Xiu-Shen Wei, Peng Wang, and Yanwen Guo. Learning Graph Convolutional Networks for Multi-Label Recognition and Applications. IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI), 2021. (计算机视觉与模式识别领域国际顶级期刊, 中科院一区, CCF-A 类期刊)
- **Zhao-Min Chen**, Quan Cui, Xiu-Shen Wei, Xin Jin, and Yanwen Guo. Disentangling, Embedding and Ranking Label Cues for Multi-Label Image Recognition. IEEE Transactions on Multimedia (TMM), 2020. (多媒体领域国际顶级期刊, 中科院一区, CCF-B 类期刊)
- **Zhao-Min Chen**, Xin Jin, Borui Zhao, Xiu-Shen. Wei, and Yanwen Guo. Hierarchical Context Embedding for Region-based Object Detection. IEEE European Conference on Computer Vision (ECCV), 2020. (计算机视觉与模式识别领域国际顶级会议, CCF-B 类会议)
- **Zhao-Min Chen**, Xiu-Shen Wei, Peng Wang, and Yanwen Guo. Multi-Label Image Recognition with Graph Convolutional Networks. IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2019. (计算机视觉与模式识别领域国际顶级会议, CCF-A 类会议)
- **Zhao-Min Chen**, Xiu-Shen Wei, Xin Jin, and Yanwen Guo. Multi-Label Image Recognition with joint Class-aware Map Disentangling and Label Correlation Embedding. IEEE International Conference on Multimedia & Expo (ICME), 2019, Oral presentation. (多媒体领域国际重要会议, CCF-B 类会议)
- Quan Cui, Bingchen Zhao, **Zhao-Min Chen**, Borui Zhao, Renjie Song, Boyan Zhou, Jiajun Liang, and Osamu Yoshie. Discriminability-Transferability Trade-Off: An Information-Theoretic Perspective. IEEE European Conference on Computer Vision (ECCV), 2022. (计算机视觉与模式识别领域国际顶级会议, CCF-B 类会议)
- Quan Cui, **Zhao-Min Chen**, Osamu Yoshie. Delving into the representation learning of deep hashing. Neurocomputing, 2022. (中科院二区)
- Xin Jin, Yanping Xie, Xiu-Shen Wei, Bo-Rui Zhao, **Zhao-Min Chen**, Xiaoyang Tan. Delving Deep into

Spatial Pooling for Squeeze-and-Excitation Networks. Pattern Recognition, 2021. (模式识别领域国际重要期刊, 中科院一区, CCF-B 类期刊)

- Yanrui Bin, **Zhao-Min Chen**, Xiu-Shen Wei, Xinya Chena, Changxin Gao, Nong Sang. Structure-Aware Human Pose Estimation with Graph Convolutional Networks. Pattern Recognition (PR), 2020. (模式识别国际重要期刊, 中科院一区, CCF-B 类期刊)
- Boyan Zhou, Quan Cui, Xiu-Shen Wei, and **Zhao-Min Chen**. BBN: Bilateral-Branch Network with Cumulative Learning for Long-Tailed Visual Recognition. IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2020, Oral presentation. (计算机视觉与模式识别领域国际顶级会议, CCF-A 类会议)

部分专利:

- 陈钊民, 张笑钦, 葛一粟, 章国道. 一种基于隐上下文标签关系建模的多标签图像识别方法, 202311471534.8.
- 陈钊民, 张笑钦, 邓若曦. 一种基于分组平衡和多样性增强的长尾分布图像识别方法, 202111095393.5.
- 魏秀参, 陈钊民, 多标签图像分类方法、装置及电子设备, ZL201810802045.9
- 魏秀参, 陈钊民, 基于图卷积的多标签图像分类方法、装置及设备, ZL201910051706.3

项目情况

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|---------------------------|----------------|
| • 浙江省科协青年人才托举项目, 主持 | 2024.1-2026.12 |
| • 国家自然科学基金青年基金, 主持 | 2023.1-2025.12 |
| • 浙江省自然科学基金重大项目联合创新群体, 参与 | 2023.1-2025.12 |
| • 浙江省自然科学基金青年基金, 主持 | 2022.1-2024.12 |
| • 浙江省研究生教育学会科研项目, 参与 | 2022.1-2024.12 |

获奖情况

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|---------------|--------|
| • 浙江省科协青年托举人才 | 2024 年 |
| • 温州市科技领军人才 | 2024 年 |
| • ACM 杭州新星奖 | 2022 年 |
| • 温州大学新潮学者 | 2021 年 |