

姓 名：欧卫华

职 称：教 授

邮 箱：[1305532268@qq.com](mailto:1305532268@qq.com)

<https://www.scholix.com/ouweihua>



## 基本情况

欧卫华，博士（后），教授，博士生导师，校学术委员会委员，贵州省优秀青年科技人才。贵州省人工智能学会副理事长，中国计算机学会高级会员，中国计算机学会计算机视觉专委会执行委员，中国图象图形学会多媒体专委会委员，中国人工智能学会青年工作委员会委员。国家自然科学基金通讯评审专家，贵州省大数据管理局特聘专家，贵州省科技厅专家库专家，贵州省高新技术企业评审专家，贵州省安防图像与视频工程技术研究中心特聘专家。

## 研究方向

机器学习、跨媒体智能。在国际权威期刊《IEEE Trans. On Neural Network and Learning System》，《Pattern Recognition》，《IEEE Trans. On Multimedia》和国际会议 ICME, ICASSP 等发表论文 60 多篇，Google Scholar Citation 1600 多次，H-指数 21。担任《Computers & Electrical Engineering》客座主编，《Cognitive Robotics》副主编，AAAI, IJCAI, CVPR, PRCV, ChinaMM, CCBR, ICIG, ISAIR 等国内外顶级会议程序委员会主席/组织委员会主席/程序委员会委员及多种国际期刊审稿人。

## 开设课程

机器学习、最优化理论、矩阵分析

## 科研成果

[1] Yong Zhang, Weihua Ou, Jiacheng Zhang, Jiaxin Deng: Category supervised cross-modal hashing retrieval for chest X-ray and radiology reports. Comput. Electr. Eng. 98: 107673 (2022)

[2] Shuangxi Wang, Hong-Wei Ge, Jianping Gou, Weihua Ou, He-feng Yin, Shuzhi

Su: Fusion of effective dimension reduction and discriminative dictionary learning for high-dimensional classification. *Comput. Electr. Eng.* 99: 107684 (2022)

[3] Quan Zhou, Qianwen Wang, Yunchao Bao, Lingjun Kong, Xin Jin, Weihua Ou: AEDNet: A Lightweight Attention Encoder-Decoder Network for ultrasound medical image segmentation. *Comput. Electr. Eng.* 99: 107777 (2022)

[4] Weian Li, Haixia Xiong, Weihua Ou, Jianping Gou, Jiaying Deng, Linqing Liang, Quan Zhou: Semantic Constraints Matrix Factorization Hashing for cross-modal retrieval. *Comput. Electr. Eng.* 100: 107842 (2022)

[5] Kaiming Shi, Zhonghua Liu, Wenpeng Lu, Weihua Ou, Chunlei Yang: Unsupervised domain adaptation based on adaptive local manifold learning. *Comput. Electr. Eng.* 100: 107941 (2022)

[6] Lei Zhang, Leiting Chen, Weihua Ou, Chuan Zhou: Semi-supervised constrained graph convolutional network for cross-modal retrieval. *Comput. Electr. Eng.* 101: 107994 (2022)

[7] Jianping Gou, Liyuan Sun, Lan Du, Hongxing Ma, Taisong Xiong, Weihua Ou, Yongzhao Zhan: A representation coefficient-based k-nearest centroid neighbor classifier. *Expert Syst. Appl.* 194: 116529 (2022)

[8] Jianping Gou, Xin He, Junyu Lu, Hongxing Ma, Weihua Ou, Yunhao Yuan: A class-specific mean vector-based weighted competitive and collaborative representation method for classification. *Neural Networks* 150: 12-27 (2022)

[9] Xiao Luan, Yuanyuan Zhao, Weihua Ou, Linghui Liu, Weisheng Li, Yucheng Shu, Hongmin Geng: Collaborative Learning With a Multi-Branch Framework for Feature Enhancement. *IEEE Trans. Multim.* 24: 929-941 (2022)

[10] Jianping Gou, Hongwei Wu, Heping Song, Lan Du, Weihua Ou, Shaoning Zeng, Jia Ke: Double Competitive Constraints-Based Collaborative Representation for Pattern Classification. *Comput. Electr. Eng.* 84: 106632 (2020)

[11] Zhonghua Liu, Kaiming Shi, Kaibing Zhang, Weihua Ou, Lin Wang: Discriminative sparse embedding based on adaptive graph for dimension reduction. *Eng. Appl. Artif. Intell.* 94: 103758 (2020)

[12] Lei Zhang, Leiting Chen, Weihua Ou, Chuan Zhou: Semi-supervised cross-modal representation learning with GAN-based Asymmetric Transfer Network. *J. Vis. Commun. Image Represent.* 73: 102899 (2020)

[13] Quan Zhou, Jie Cheng, Huimin Lu, Yawen Fan, Suofei Zhang, Xiaofu Wu, Baoyu Zheng, Weihua Ou, Longin Jan Latecki: Learning adaptive contrast combinations for visual saliency detection. *Multim. Tools Appl.* 79(21-22): 14419-14447 (2020)

[14] Weihua Ou, Ruisheng Xuan, Jianping Gou, Quan Zhou, Yongfeng Cao: Semantic consistent adversarial cross-modal retrieval exploiting semantic similarity. *Multim. Tools Appl.* 79(21-22): 14733-14750 (2020)

[15] Yuteng Zhang, Wenpeng Lu, Weihua Ou, Guoqiang Zhang, Xu Zhang, Jinyong Cheng, Weiyu Zhang: Chinese medical question answer selection via hybrid models based on CNN and GRU. *Multim. Tools Appl.* 79(21-22): 14751-14776 (2020)

[16] Jianping Gou, Bing Hou, Yunhao Yuan, Weihua Ou, Shaoning Zeng: A new discriminative collaborative representation-based classification method via l2

regularizations. *Neural Comput. Appl.* 32(13): 9479-9493 (2020)

[17] Jianping Gou, Lei Wang, Zhang Yi, Yunhao Yuan, Weihua Ou, Qirong Mao: Weighted discriminative collaborative competitive representation for robust image classification. *Neural Networks* 125: 104-120 (2020)

[18] Zhonghua Liu, Zihui Lai, Weihua Ou, Kaibing Zhang, Ruijuan Zheng: Structured optimal graph based sparse feature extraction for semi-supervised learning. *Signal Process.* 170: 107456 (2020)

[19] Jianping Gou, Lei Wang, Zhang Yi, Yunhao Yuan, Weihua Ou, Qirong Mao: Weighted discriminative collaborative competitive representation for robust image classification. *Neural Networks* 125: 104-120 (2020)

[20] Zhonghua Liu, Zihui Lai, Weihua Ou, Kaibing Zhang, Ruijuan Zheng: Structured optimal graph based sparse feature extraction for semi-supervised learning. *Signal Process.* 170: 107456 (2020) 2010 – 2019

[21] <https://dblp.uni-trier.de/pid/126/1061.html> 个人主页

## 科研项目

[1] 国家自然科学基金青年基金，基于鲁棒判别式非负字典学习的遮挡人脸识别研究，2015.1—2017.12，主持。结题

[2] 国家自然科学基金地区基金，基于结构约束的跨模态检索方法研究，2018.1—2021.12.，主持。结题

[3] 国家自然科学基金地区基金：面向人脸视频的心率检测关键问题研究，2020.1-2023.12，主持。

[4] 贵州省科技厅自然科学基金，基于子空间嵌入的语义图像检索研究，2017.10-2020.12，主持。结题

[5] 入选贵州省第十二批优秀青年科技人才，2019.10-2022.12，主持。

## 获奖情况

[1] 贵州省优秀青年科技人才

[2] ISAIR2020 Best Paper Award

[3] Neurocomputing (2016,2017) Outstanding Reviewer

[5] 贵州师范大学科研工作先进个人 2017年，2019年

[6] 贵州师范大学优秀教师 2019年

[7] 贵州师范大学 优秀共产党员

注：欢迎数学基础好，有一定编程基础，对人工智能感兴趣的同学加入团队！