



# 刘昊

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## 教育背景

2014.09-2018.01	清华大学	控制工程与科学博士
2011.09-2014.07	中国科学院大学	计算机技术硕士
2008.09-2011.07	四川大学	软件工程学士

## 工作经历

2018年12月至今	宁夏大学信息工程学院	副教授
2019年11月至今	宁夏大学信息工程学院计算机科学系	系副主任

## 学术兼职

学术团体: IEEE ICME 2020领域主席、CAAI模式识别专委会委员、GSIG视觉大数据专委会委员

期刊审稿人: T-PAMI/T-IP/T-MM/T-IFS/T-CSVT

会议审稿人: CVPR/ACM MM/AAAI/CIKM/ICME/ICIP

## 研究领域

计算机视觉: 人脸分析、目标检测、三维建模

深度学习: 对抗学习、强化学习、自监督学习

## 研究概况

- 国家自然科学基金(青年项目): 基于深度强化学习的人脸关键点检测, 2019.1-2021.12, 主持
- 中科院“西部之光”青年学者: 面向精准视觉目标检测的深度强化学习方法研究, 2019.1-2021.12 (合作单位: 中科院自动化所模式识别国家重点实验室), 主持
- 宁夏自然科学基金(面上项目): 基于多智能体协同感知的精准人脸关键点定位与跟踪, 2018.9-2020.8, 主持

## 奖励与荣誉

- 2019年获中国人工智能学会优秀博士论文奖 (全国10人)
- 2019-2021年度中国科协青年人才托举工程, 国家级人才项目
- 第十五届宁夏自然科学优秀学术论文一等奖
- 第三批宁夏青年科技托举人才
- 2018年获清华大学优秀博士论文二等奖
- 2018年获清华大学优秀毕业生
- 2017年获清华大学国家奖学金

## 代表性论著

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1. **Hao Liu**, Jiwen Lu\*, Minghao Guo, Suping Wu and Jie Zhou. Learning Reasoning-Decision Networks for Robust Face Alignment, IEEE Transactions on Pattern Analysis and Machine Intelligence (T-PAMI), 2019 (长文, SCI一区, IF: 17.73, CCF A类)
2. **Hao Liu**, Jiwen Lu\*, Jianjiang Feng and Jie Zhou. Two-Stream Transformer Networks for Video-based Face Alignment, IEEE Transactions on Pattern Analysis and Machine Intelligence (T-PAMI), 2018 (长文, SCI一区, IF: 17.73, CCF A类)
3. **Hao Liu**, Jiwen Lu\*, Jianjiang Feng and Jie Zhou. Learning Deep Sharable and Structural Detectors for Face Alignment, IEEE Transactions on Image Processing (T-IP), 2017 (长文, SCI二区, IF: 6.79, CCF A类)
4. **Hao Liu**, Jiwen Lu\*, Jianjiang Feng and Jie Zhou. Label-Sensitive Deep Metric Learning for Facial Age Estimation, IEEE Transactions on Information Forensics and Security (T-IFS), 2018 (长文, SCI二区, IF: 6.211, CCF A类)
5. **Hao Liu**, Jiwen Lu\*, Jianjiang Feng and Jie Zhou. Ordinal Deep Learning for Facial Age Estimation, IEEE Transactions on Circuits and Systems for Video Technology (T-CSVT), 2018 (长文, SCI二区, IF: 4.046, CCF B类)
6. **Hao Liu\***, Penghui Sun, Xing Wang, Zhenhua Yu, Suping Wu and Xuehong Sun. Similarity-Aware and Variational Deep Adversarial Learning for Robust Facial Age Estimation. IEEE Transactions on Multimedia (T-MM), 2020. (长文, SCI二区TOP, IF: 5.452, CCF B)
7. **Hao Liu**, Jiwen Lu\*, Jianjiang Feng and Jie Zhou. Group-Aware Deep Feature Learning for Facial Age Estimation, Pattern Recognition (PR), 2017.(长文, SCI二区, IF: 5.90, CCF B类)
8. Congcong Zhu, **Hao Liu\***, Xuehong Sun. Towards Omni-Supervised Face Alignment for Large Scale Unlabeled Videos, AAAI Conference on Artificial Intelligence (AAAI), 2020. (CCF A类)
9. Penghui Sun, **Hao Liu\***, Xing Wang, Zhenhua Yu and Suping Wu. Similarity-Aware Deep Adversarial Learning for Facial Age Estimation. IEEE International Conference on Multimedia and Expo (ICME), Oral, 2019. (CCF B类)
10. Jiaqiang Zhang#, Congcong Zhu#, Suping Wu, Zhenhua Yu, Xuehong Sun and **Hao Liu\***. Learning Deformable Hourglass Networks (DHGN) for Unconstrained Face Alignment. IEEE International Conference on Image Processing (ICIP), 2019. (CCF C类)
11. Congcong Zhu, Zhenhua Yu, Suping Wu and **Hao Liu\***. Dual-Cycle Deep Reinforcement Learning for Stabilizing Face Tracking. IEEE International Conference on Multimedia and Expo (ICME), 2019. (CCF B类)
12. Congcong Zhu, Suping Wu, Zhenhua Yu, Xing Wang and **Hao Liu\***. Multi-Agent Deep Collaboration Learning for Face Alignment Under Different Perspectives. IEEE International Conference on Image Processing (ICIP), 2019. (CCF C类)
13. **Hao Liu**, Jiwen Lu\*, Jianjiang Feng and Jie Zhou. Ordinal Deep Feature Learning for Facial Age Estimation. IEEE International Conference on Automatic Face and Gesture Recognition (FG), 2017. (CCF C类)
14. **Hao Liu**, Lei Qin\*, Zhongwei Cheng and Qingming Huang. Set-based Classification for Person Re-Identification Utilizing Mutual-information. IEEE International Conference on Image Processing (ICIP), 2013. (CCF C类)