

张笑钦教师简介

一、 个人基本情况：

姓 名： 张笑钦

性 别： 男

出生年月： 1982.11

民 族： 汉

职称职务： 教授/副院长

政治面貌： 中共党员

最后学历： 博士研究生

最高学位： 博士

工作单位： 温州大学/数理与电子信息工程学院

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二、 从事研究的专业领域及主要研究方向

研究的专业领域： 人工智能、计算机科学与技术

主要研究方向： 模式识别、机器学习、数据挖掘、计算机视觉

三、 主要工作经历

1. 2001.09—2005.06, 中南大学, 电子信息科学与技术, 学士
2. 2005.09—2010.07, 中国科学院自动化研究所, 模式识别与智能系统, 博士

3. 2008.03—2008.07, 英特尔中国研究院, 实习生
4. 2010.07—至今, 温州大学, 教师
5. 2013.02—2013.08, 微软亚洲研究院(铸星计划), 访问研究员
6. 2015.03—2015.06, 美国约翰霍普金斯大学, 访问学者
7. 2016.01—2016.12, 德国慕尼黑工业大学(洪堡学者), 访问学者

四、近年来主持的主要教学科研项目

1. 国家自然科学基金面上项目, 基于多特征联合稀疏表示和低秩张量恢复的视觉跟踪研究, 主持
2. 国家自然科学基金国际合作项目, 医学图像的非刚性配准与去噪研究, 主持
3. 国家自然科学基金青年项目, 面向低帧率视频的目标跟踪研究, 主持
4. 浙江省杰出青年科学基金项目, 基于 L_p 范数-多任务稀疏表示的目标跟踪研究, 主持
5. 德国洪堡基金项目, 基于 L_p 范数正则化的压缩感知研究及应用, 主持
6. 浙江省公益技术应用研究计划项目, 面向智能交通的基于联合稀疏表示的目标跟踪关键技术研究, 主持
7. 浙江省高等教育教学改革项目, 创业教育与信算专业教育深度融合的人才培养模式研究, 主持
8. 温州市重大科技专项, 视频监控中人体行为模式分析的关键技术研发及应用, 主持
9. 温州市重点创新团队, 视觉信息智能计算与应用创新团队, 主持

五、近年完成的主要教学科研成果目录 (含论文、课题、科研获奖、教学成果)

➤ 部分期刊论文

1. Shaobo Lin, Jinshan Zeng, and **Xiaoqin Zhang**, “Constructive neural network learning”, *IEEE Trans. on Cybernetics (IEEE TC)*, 2018.
2. Mingyu Fan, **Xiaoqin Zhang***, Liang Chen, Liang Du, and Dacheng Tao, “Semi-Supervised Learning Through Label Propagation on Geodesics”, *IEEE Trans. on Cybernetics (IEEE TC)*, 2017.
3. Huazhu Fu, Yanwu Xu, Stephen Lin, **Xiaoqin Zhang**, Damon Wing Kee Wong, Jiang Liu, Alejandro Frangi, Mani Baskaran, and Tin Aung, “Segmentation and Quantification for Angle-Closure Glaucoma Assessment in Anterior Segment OCT”, *IEEE Trans. on Medical Image (IEEE TMI)*, 2017.
4. Di Wang, **Xiaoqin Zhang***, Mingyu Fan, Xiuzi Ye, “Hierarchical Mixing Linear Support Vector Machines for Nonlinear Classification”, *Pattern Recognition (PR)*, 59: 255–267, 2016.
5. Mingyu Fan, **Xiaoqin Zhang**, Hong Qiao, Bo Zhang, “Efficient Isometric Multi-Manifold

- Learning Based on the Self-Organizing Method”, *Information Sciences (IS)*, 345(2): 325-339, 2016.
6. **Xiaoqin Zhang**, Weiming Hu, Nianhua Xie, Hujun Bao, and Steve Maybank, “A Robust Tracking System for Low Frame Rate Video”, *International Journal of Computer Vision (IJCV)*, 115(3): 279-304, 2015.
 7. Weiming Hu, Wei Li, **Xiaoqin Zhang**, Steve Maybank, “Single and Multiple Object Tracking Using a Multi-Feature Joint Sparse Representation”, *IEEE Trans. on Pattern Analysis and Machine Intelligence (IEEE T-PAMI)*, 37(4): 816-833, 2015.
 8. **Xiaoqin Zhang**, Wei Li, Xiuzi Ye, Steve Maybank, “Robust Hand Tracking via Novel Multi-cue Integration”, *Neurocomputing*, 157: 296-305, 2015.
 9. Di Wang, **Xiaoqin Zhang***, Mingyu Fan, Xiuzi Ye, “An Efficient Semi-Supervised Classifier Based on Block-Polynomial Mapping”, *IEEE Signal Processing Letters*, 22(10): 1776-1780, 2015.
 10. **Xiaoqin Zhang**, Weiming Hu, Shengyong Chen, Steve Maybank, “Graph-Embedding-Based Learning for Robust Object Tracking”, *IEEE Trans. on Industrial Electronics (IEEE T-IE)*, 61(2): 1072-1084, 2014.
 11. **Xiaoqin Zhang**, Changcheng Li, Xiaofeng Tong, Weiming Hu, Steve Maybank, Y. Zhang, “Human Pose Estimation and Tracking via Parsing a Tree Structure Based Human Model”, *IEEE Trans. on Systems, Man and Cybernetics: Systems (IEEE T-SMCS)*, 44(5): 580-592, 2014.
 12. Mingyu Fan, **Xiaoqin Zhang***, Zhouchen Lin, Zhongfei Zhang, Hujun Bao, “A Regularized Approach for Geodesic Based Semi-Supervised Multi-Manifold Learning”, *IEEE Trans. on Image Processing (IEEE T-IP)*, 23(5): 2133-2147, 2014.
 13. **Xiaoqin Zhang**, Weiming Hu, Hujun Bao, Steve Maybank, “Robust Head Tracking Based on Multiple Cues Fusion in the Kernel-Bayesian Framework”, *IEEE Trans. on Circuits and Systems for Video Technology (IEEE T-CSVT)*, 23(7): 1197-1208, 2013.
 14. **Xiaoqin Zhang**, Wei Li, Weiming Hu, Haibin Ling, Steve Maybank, “Block Covariance Based L1 Tracker with a Subtle Template Dictionary”, *Pattern Recognition (PR)*, 46(7): 1750-1761, 2013.
 15. Weiming Hu, Xue Zhou, Wei Li, Wenhan Luo, **Xiaoqin Zhang**, Steve Maybank, “Active Contour-Based Visual Tracking by Integrating Colors, Shapes and Motions”, *IEEE Trans. on Image Processing (IEEE T-IP)*, 22(5): 1778-1792, 2013.
 16. Mingyu Fan, **Xiaoqin Zhang***, Shengyong Chen, Hujun Bao, Steve Maybank, “Dimension estimation of image manifolds by minimal cover approximation”, *Neurocomputing*, 105(1): 19-29, 2013.
 17. Weiming Hu, Xi Li, Wenhan Luo, **Xiaoqin Zhang**, Steve Maybank, Zhongfei Zhang, “Single and Multiple Object Tracking Using Log-Euclidean Riemannian Subspace and Block-Division Appearance Model”, *IEEE Trans. on Pattern Analysis and Machine*

Intelligence (IEEE T-PAMI), 34(12): 2420-2440, 2012.

18. Weiming Hu, Xi Li, **Xiaoqin Zhang**, Xingchu Shi, and Steve Maybank, “Incremental Tensor Subspace Learning and Its Applications to Foreground Segmentation and Tracking”, *International Journal of Computer Vision (IJCV)*, 91(3): 303-327, 2011.
19. **Xiaoqin Zhang**, Xingchu Shi, and Weiming Hu, “Visual Tracking via Dynamic Tensor Analysis with Mean Update”, *Neurocomputing*, 74(17): 3277-3285, 2011.
20. Yu Kong, **Xiaoqin Zhang**, Weiming Hu, and YundeJia, “Learning Adaptive Codebook for Action Recognition”, *Pattern Recognition Letters*, 32(8): 1178–1186, 2011.
21. **Xiaoqin Zhang**, Weiming Hu, Wei Qu, and Steve Maybank, “Multiple Object Tracking via Species-Based Particle Swarm Optimization”, *IEEE Trans. on Circuits and Systems for Video Technology (IEEE T-CSVT)*, 20(11): 1590-1602, 2010.

➤ 部分会议论文

22. Mingyu Fan, Xiaojun Chang, **Xiaoqin Zhang***, Di Wang, Liang Du, “Top-k Supervise Feature Selection via ADMM for Integer Programming”, *International Joint Conference on Artificial Intelligence (IJCAI)*, 2017.
23. Yanwu Xu, Lixin Duan, Huazhu Fu, **Xiaoqin Zhang**, Damon Wing Kee Wong, Baskaran Mani, Tin Aung, and Jiang Liu, “Axial Alignment for Anterior Segment Swept Source Optical Coherence Tomography via Robust Low-rank Tensor Recovery”, *International Conference on Medical Image Computing and Computer Assisted Intervention (MICCAI)*, vol. 9902, pp. 441-449, 2016.
24. Di Wang, **Xiaoqin Zhang***, Mingyu Fan, Xiuzi Ye, “Semi-Supervised Dictionary Learning via Structural Sparse Preserving”, *AAAI Conference on Artificial Intelligence (AAAI)*, pp. 2137-2144, 2016.
25. Lin Ma, **Xiaoqin Zhang**, Weiming Hu, Junliang Xing, Jiwen Lu and Jie Zhou, “Local Subspace Collaborative Tracking”, *International Conference on Computer Vision (ICCV)*, pp. 4301-4309, 2015.
26. **Xiaoqin Zhang**, Wei Li, Mingyu Fan, Di Wang, Xiuzi Ye, “Multi-Modality Tracker Aggregation: from Generative to Discriminative”, *International Joint Conference on Artificial Intelligence (IJCAI)*, 2015.
27. Di Wang, **Xiaoqin Zhang***, Mingyu Fan, Xiuzi Ye, “An Efficient Classifier Based on Hierarchical Mixing Linear Support Vector Machines”, *International Joint Conference on Artificial Intelligence (IJCAI)*, 2015.
28. **Xiaoqin Zhang**, Zhengyuan Zhou, Di Wang, Yi Ma, “Hybrid Singular Value Thresholding for Tensor Completion”, *AAAI Conference on Artificial Intelligence (AAAI)*, 2014.
29. **Xiaoqin Zhang**, Di Wang, Zhengyuan Zhou, Yi Ma, “Simultaneous Rectification and Alignment via Robust Recovery of Low-rank Tensors”, *Advances in Neural Information Processing Systems (NIPS)*, 2013.

30. Mingyu Fan, Hong Qiao, Bo Zhang, **Xiaoqin Zhang**, “Isometric multi-manifold learning for feature extraction”, *IEEE International Conference on Data Mining (ICDM)*, 2012.
31. Mingyu Fan, **Xiaoqin Zhang***, Zhouchen Lin, Zhongfei Zhang, Hujun Bao, “Geodesic based semi-supervised multi-manifold feature extraction”, *IEEE International Conference on Data Mining (ICDM)*, 2012.
32. Liang Chen, Ling Yan, Yonghuai Liu, Lixin Gao, **Xiaoqin Zhang**, “Displacement Template with Divide-&Conquer Algorithm for Significantly Improving Descriptor Based Face Recognition Approaches”, *European Conference on Computer Vision (ECCV)*, 2012.
33. Nianhua Xie, Haibing Lin, Weiming Hu, **Xiaoqin Zhang**, “Use Bin-Ratio Information for Category and Scene Classification”, *International Conference on Computer Vision and Pattern Recognition (CVPR)*, 2010
34. **Xiaoqin Zhang**, Changcheng Li, Xiaofeng Tong, Weiming Hu, Steve Maybank, Yimin Zhang, “Efficient Human Pose Estimation via Parsing a Tree Structure Based Human Model”, *International Conference on Computer Vision (ICCV)*, 2009.
35. **Xiaoqin Zhang**, Weiming Hu, Steve Maybank, Li Xi, “Sequential Particle Swarm Optimization for Visual Tracking”, *International Conference on Computer Vision and Pattern Recognition (CVPR)*, 2008.
36. Xi Li, Weiming Hu, Zhongfei Zhang, **Xiaoqin Zhang**, Mingliang Zhu, Jian Chen, “Visual Tracking via Incremental Log-Euclidean Riemannian Subspace Learning”, *International Conference on Computer Vision and Pattern Recognition (CVPR)*, 2008.
37. Xi Li, Weiming Hu, Zhongfei Zhang, **Xiaoqin Zhang**, “Robust visual tracking Based on An Effective Appearance Model”, *European Conference on Computer Vision (ECCV)*, 2008.
38. Xi Li, Weiming Hu, Zhongfei Zhang, **Xiaoqin Zhang**, “Robust Foreground Segmentation Based on Two Effective Background Models”, *ACM Conference on Multimedia Information Retrieval (ACM MIR)*, 2008.
39. **Xiaoqing Zhang**, Weiming Hu, Steve Maybank, and Xi Li, “Graph based discriminative learning for robust and efficient object tracking”, *IEEE International Conference on Computer Vision (ICCV)*, 2007.
40. **Xiaoqin Zhang**, Zhiyong Liu, Hong Qiao, “A Robust Multiple Cues Fusion based Bayesian Tracker”, *IEEE International Conference on Robotics and Automation (ICRA)*, pp. 4614-4619, 2007
41. Xi Li, Weiming Hu, Zhongfei Zhang, **Xiaoqin Zhang**, and Guan Luo, “Robust Visual Tracking Based on Incremental Tensor Subspace Learning”, *IEEE International Conference on Computer Vision (ICCV)*, 2007.

➤ 科研获奖

1. 《复杂场景下目标跟踪的理论与方法》，浙江大学出版社 2017 年度 10 大好书(科技类)，2017
2. 《复杂交通场景视频多目标跟踪与识别关键技术研究及应用》，浙江省人民政府，浙江省科技进步三等奖，2014
3. 《视频的运动跟踪、理解与检索》，北京市人民政府，北京市科技奖二等奖，获奖者：胡卫明、李玺、张笑钦，2009

4. 《基于 L_p 范数正则化的压缩感知研究及应用》，德国洪堡基金会，洪堡学者，2016。
5. 《低秩张量理论及应用》，微软亚洲研究院，微软青年教师铸星计划(StarTrack Program)，2013。
6. 《复杂场景下目标的跟踪与姿态估计》，中国计算机学会，中国计算机学会 CCF 优秀博士论文奖，2011。
7. 微软亚洲研究院，微软学者，获奖者：张笑钦，2009。

➤ 教学成果

1. 温州大学步青教学名师奖，2017
2. 温州大学教学成果一等奖，2016
3. 温州大学校长特别奖，2015
4. 温州大学教坛新秀奖，2013
5. 温州大学优秀教师，2013
6. 温州大学科技创新十佳指导教师，2012、2015

➤ 指导学生

指导学生获得浙江省新苗计划科技立项 3 项，国家级创新创业项目 2 项，指导学科竞赛共获全国大学生数学建模竞赛一等奖、二等奖 10 余项，美国大学生数学建模竞赛一等奖、二等奖 3 项，全国研究生数学建模二等奖、三等奖 2 项。全国挑战杯金奖 1 项，浙江省挑战竞赛特等奖 1 项。全国互联网+创新创业竞赛铜奖 1 项，浙江省互联网+创新创业竞赛金奖 1 项。

六、 研究生培养情况

已培养研究生 5 名，目前指导在读研究生 7 名。

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