

姜求平 副教授/硕士生导师, 宁波大学



- ✧ 研究领域: 图像/视频处理、视觉感知计算、计算机视觉
- ✧ 通讯地址: 宁波大学北校区杨咏曼楼 703
- ✧ 个人主页: www.jiangqiuping.com
- ✧ 电子邮箱: jiangqiuping@nbu.edu.cn
- ✧ 联系电话: 15257863294

姜求平, 男, 浙江衢州人, 1991 年 7 月出生, 工学博士, 浙江省杰青、宁波市拔尖人才、宁波市“泛 3315 计划”创新个人、宁波大学“浙东青年学者”培养对象、中国图象图形学会 (CSIG) 多媒体专委会/视觉大数据专委会委员。目前担任宁波大学通信工程系副教授/硕士生导师, 主要研究方向为图像处理、视觉感知计算与计算机视觉等。主持国家自然科学基金、浙江省杰出青年科学基金等各类科研项目 5 项, 在 IEEE TIP、TCYB、TMM、TCSVT、ACM MM 等领域内重要国际期刊/会议上发表论文 60 余篇, 其中 IEEE 期刊论文 38 篇 (33 篇 Transactions, 5 篇 Letters), 2 篇论文入选 ESI 高被引, 谷歌学术引用 1000 余次。获授权国家发明专利 20 余项, 其中多项实现技术转让。获知名 SCI 期刊《Journal of Visual Communication and Image Representation》最佳论文提名奖、浙江省优秀博士学位论文提名、宁波市自然科学优秀论文二等奖等科研奖励和荣誉。担任 IEEE TIP、TCYB、TMM、TCSVT 等多个顶级期刊审稿人以及 IJCAI、ACM MM、ICME、ICIP 等多个重要国际学术会议的领域主席和程序委员会委员。

学习/工作经历

- | | | | |
|-------------------|--------|-----------|-----------|
| ✧ 2018/07-至今 | 副教授/硕导 | 信息科学与工程学院 | 宁 波 大 学 |
| ✧ 2017/01-2018/06 | 公派联合培养 | 计算机工程学院 | 新加坡南洋理工大学 |
| ✧ 2015/09-2018/06 | 博士生 | 信号与信息处理 | 宁 波 大 学 |
| ✧ 2012/09-2015/06 | 硕士生 | 电子与通信工程 | 宁 波 大 学 |
| ✧ 2008/09-2012/06 | 本科生 | 通信工程 | 中国计量大学 |

科研项目

- ✧ 浙江省杰出青年科学基金, 基于深度学习的水下光学图像增强和客观质量评价方法研究, 2022/01-2024/12, 主持
- ✧ 国家自然科学基金青年项目, 面向适配显示的 3D 视频视觉体验质量评价与优化, 2020/01-2022/12, 主持
- ✧ 宁波市自然科学基金重点项目, 面向 3D 视频应用的视频适配技术研究, 2019/06-2021/06, 主持
- ✧ 省属高校基本业务费战略引导项目, 基于样本生成的水下光学图像评价与增强, 2020/09-2023/09, 主持
- ✧ 宁波大学高层次人才引进项目, 基于深度学习的无参考影像质量评价, 2018/07-2023/07, 主持

学术兼职

国际学术会议领域主席

- ✧ IEEE 国际多媒体与博览旗舰会议 2022 (ICME'2022)
- ✧ IEEE 国际多媒体与博览旗舰会议 2021 (ICME'2021)

- ✧ 亚太信号与信息处理协会信号与信息处理国际峰会 2019 (APSIPA'2019)

国际学术会议技术委员会成员

- ✧ 第 20 届国际人工智能联合会议 (IJCAI'2021; CCF-A 类推荐会议)
- ✧ ACM 多媒体国际会议 (ACM MM'2021; CCF-A 类推荐会议)
- ✧ IEEE 国际多媒体与博览旗舰会议 (ICME'2020, ICME'2021; CCF-B 类推荐会议)
- ✧ 亚太信号与信息处理协会信号与信息处理国际峰会 (APSIPA'2020)
- ✧ IEEE 图像处理旗舰会议 (ICIP'2019, ICIP'2018; CCF 推荐会议)
- ✧ IEEE 视觉通信与图像处理国际会议 (VCIP'2020, VCIP'2018, VCIP'2017)

国际/国内权威期刊审稿专家

- ✧ IEEE Transactions on Image Processing
- ✧ IEEE Transactions on Circuits and Systems for Video Technology
- ✧ IEEE Transactions on Multimedia
- ✧ IEEE Transactions on Neural Networks and Learning Systems
- ✧ IEEE Transactions on Cybernetics
- ✧ IEEE Transactions on Medical Imaging
- ✧ IEEE Transactions on Broadcasting
- ✧ IEEE Internet of Things Journal
- ✧ IEEE Multimedia Magazine
- ✧ IEEE Signal Processing Letters
- ✧ Elsevier Signal Processing: Image Communication
- ✧ Elsevier Journal of Visual Communication and Image Representation
- ✧ Elsevier Signal Processing
- ✧ 电子学报、计算机学报、中国图象图形学报

奖励与荣誉

- | | | |
|-----------|--------------------|-----|
| ✧ 2021/11 | 浙江省杰出青年科学基金获得者 | 1/1 |
| ✧ 2020/01 | 宁波大学“浙东青年学者”培养对象 | 1/1 |
| ✧ 2019/12 | 宁波市自然科学优秀论文二等奖 | 1/4 |
| ✧ 2019/11 | 浙江省优秀博士学位论文提名奖 | 1/1 |
| ✧ 2019/09 | 宁波市高层次人才（拔尖人才） | 1/1 |
| ✧ 2019/09 | 宁波市“泛 3315 计划”创新个人 | 1/1 |
| ✧ 2018/05 | 浙江省普通高等学校优秀毕业生 | 1/1 |
| ✧ 2018/01 | 宁波市高校优秀大学生荣誉称号 | 1/1 |
| ✧ 2017/12 | 宁波大学杰出研究生荣誉奖章 | 1/1 |
| ✧ 2017/05 | JVCI 期刊最佳论文提名奖(亚军) | 1/5 |

学术论文

1. **Qiuping Jiang**, Zhenyu Peng, Feng Shao, Ke Gu, Yabin Zhang, Wenjun Zhang, Weisi Lin, "StereoARS: Quality evaluation for stereoscopic image retargeting with binocular inconsistency detection," *IEEE Transactions on Broadcasting (TBC)*, 2021.
2. **Qiuping Jiang**, Zhenyu Peng, Guanghui Yue, Hong Li, Feng Shao, "No-reference image contrast evaluation by generating bi-directional pseudo references," *IEEE Transactions on Industrial Informatics (TII)*, 17(9): 6062-6072, Sept. 2021.
3. **Qiuping Jiang**, Feng Shao, Wei Gao, Zhuo Chen, Gangyi Jiang, Yo-Sung Ho, "Unified no-reference quality assessment of singly and multiply distorted stereoscopic images," *IEEE Transactions on Image Processing (TIP)*, 28(4): 1866-1881, Apr. 2019. (ESI 高被引论文)

4. **Qiuping Jiang**, Feng Shao, Weisi Lin, Gangyi Jiang, "BLIQUE-TMI: Blind quality evaluator for tone-mapped images based on local and global feature analyses," *IEEE Transactions on Circuits and Systems for Video Technology (TCSVT)*, 29(2): 323-335, Feb. 2019.
5. **Qiuping Jiang**, Feng Shao, Weisi Lin, Gangyi Jiang, "Learning sparse representation for objective image retargeting quality assessment," *IEEE Transactions on Cybernetics (TCYB)*, 48(4): 1276-1289, Apr. 2018.
6. **Qiuping Jiang**, Feng Shao, Weisi Lin, Ke Gu, Gangyi Jiang, Huifang Sun, "Optimizing multistage discriminative dictionaries for blind image quality assessment," *IEEE Transactions on Multimedia (TMM)*, 20(8): 2035-2048, Aug. 2018. (ESI 高被引论文)
7. **Qiuping Jiang**, Wei Zhou, Xiongli Chai, Guanghui Yue, Feng Shao, Zhibo Chen, "A full-reference stereoscopic image quality measurement via hierarchical deep feature degradation fusion," *IEEE Transactions on Instrumentation and Measurement (TIM)*, 69(12): 9784-9796, Dec. 2020.
8. **Qiuping Jiang**, Wei Gao, Shiqi Wang, Guanghui Yue, Feng Shao, Yo-Sung Ho, Sam Kwong, "Blind image quality measurement by exploiting high order statistics with deep dictionary encoding network," *IEEE Transactions on Instrumentation and Measurement (TIM)*, 69(10): 7398-7410, Oct. 2020.
9. Zhenyu Peng, **Qiuping Jiang***, Feng Shao, Wei Gao, Weisi Lin, "LGGD+: Image retargeting quality assessment by measuring local and global geometric distortions," *IEEE Transactions on Circuits and Systems for Video Technology (TCSVT)*, accepted, 2021.
10. Yudong Mao, **Qiuping Jiang***, Runmin Cong, Wei Gao, Feng Shao, Sam Kwong, "Cross-modality fusion and progressive integration network for saliency prediction on stereoscopic 3D images," *IEEE Transactions on Multimedia (TMM)*, accepted, 2021.
11. Feng Shao, Yanjia Fei, **Qiuping Jiang***, Xiangchao Meng, Yo-Sung Ho, "Building stereoscopic zoomer via global and local warping optimization," *IEEE Transactions on Computational Imaging (TCI)*, 6: 1622-1635, 2020.
12. Xuejin Wang[#], **Qiuping Jiang[#]**, Feng Shao, Ke Gu, Guangtao Zhai, Xiaokang Yang, "Exploiting local degradation characteristics and global statistical properties for blind assessment of tone-mapped HDR images," *IEEE Transactions on Multimedia (TMM)*, 23: 692-705, 2021.
13. **Qiuping Jiang**, Feng Shao, Weisi Lin, Gangyi Jiang, "Learning a referenceless stereopair quality engine with deep non-negativity constrained sparse auto-encoder," *Pattern Recognition (PR)*, 76: 242-255, Apr. 2018.
14. **Qiuping Jiang**, Feng Shao, Gangyi Jiang, Mei Yu, Zongju Peng, "Visual comfort assessment for stereoscopic images based on sparse coding with multi-scale dictionaries," *Neurocomputing (NEUCOM)*, 252: 77-86, Aug. 2017.
15. **Qiuping Jiang**, Feng Shao, Wei Gao, Hong Li, Yo-Sung Ho, "A risk-aware pairwise rank learning approach for visual discomfort prediction of stereoscopic 3D," *IEEE Signal Processing Letters (SPL)*, 26(11): 1588-1592, Nov. 2019.
16. **Qiuping Jiang**, Zhenyu Peng, Sheng Yang, Feng Shao, "Authentically distorted image quality assessment by learning from empirical score distributions," *IEEE Signal Processing Letters (SPL)*, 26(12): 1867-1871, Dec. 2019.
17. **Qiuping Jiang**, Feng Shao, Weisi Lin, Gangyi Jiang, "On predicting visual comfort of stereoscopic images: A learning to rank based approach," *IEEE Signal Processing Letters (SPL)*, 23(2): 302-306, Feb. 2016.
18. **Qiuping Jiang**, Feng Shao, Gangyi Jiang, Mei Yu, Zongju Peng, "Supervised dictionary learning for blind image quality assessment using quality-constraint sparse coding," *Journal of Visual Communication and Image Representation (JVCI)*, 33: 123-133, Nov. 2015.
19. **Qiuping Jiang**, Feng Shao, Gangyi Jiang, Mei Yu, Zongju Peng, Changhong Yu, "A depth perception and visual comfort guided computational model for stereoscopic 3D visual saliency," *Signal Processing: Image Communication (SPIC)*, 38: 57-69, Oct. 2015.
20. **Qiuping Jiang**, Feng Shao, Gangyi Jiang, Mei Yu, Zongju Peng, "Leveraging visual attention and neural activity for stereoscopic 3D visual comfort assessment," *Multimedia Tools and Applications (MTAP)*, 76(7): 9405-9425, Apr. 2017.
21. **Qiuping Jiang**, Feng Shao, Gangyi Jiang, Mei Yu, Zongju Peng, "Three-dimensional visual comfort assessment via preference learning," *Journal of Electronic Imaging (JEI)*, 24(4): 043002, Jul. 2015.

22. Guanghui Yue, Chunping Hou, **Qiuping Jiang***, Yang Yang, "Blind stereoscopic 3D image quality assessment via analysis of naturalness, structure, and binocular asymmetry," *Signal Processing (SP)*, 150: 204-214, Sep. 2018.
23. Yongqiang Bai, Mei Yu*, **Qiuping Jiang***, Gangyi Jiang, Zhongjie Zhu, "Learning content-specific codebooks for blind quality assessment of screen content images," *Signal Processing (SP)*, 161: 248-258, Aug. 2019.
24. Junkang Hu, **Qiuping Jiang***, Runmin Cong, Wei Gao, Feng Shao, "Two-Branch Deep Neural Network for Underwater Image Enhancement in HSV Color Space," *IEEE Signal Processing Letters (SPL)*, accepted, 2021.
25. Chao Huang, Zhihao Wu, Jie Wen, Yong Xu, **Qiuping Jiang**, Yaowei Wang, "Abnormal Event Detection Using Deep Contrastive Learning for Intelligent Video Surveillance System," *IEEE Transactions on Industrial Informatics (TII)*, accepted, 2021.
26. Hangwei Chen, Xiongli Chai, Feng Shao, Xuejin Wang, **Qiuping Jiang**, Xiangchao Meng, Yo-Sung Ho, "Perceptual Quality Assessment of Cartoon Images," *IEEE Transactions on Multimedia (TMM)*, accepted, 2021.
27. Sheng Yang, Weisi Lin, Guosheng Lin, **Qiuping Jiang**, Zichuan Liu, "Progressive Self-Guided Loss for Salient Object Detection," *IEEE Transactions on Image Processing (TIP)*, accepted, 2021.
28. Xiongli Chai, Feng Shao, **Qiuping Jiang**, Xiangchao Meng, Yo-Sung Ho, "Monocular and Binocular Interactions Oriented Deformable Convolutional Networks for Blind Quality Assessment of Stereoscopic Omnidirectional Images," *IEEE Transactions on Circuits and Systems for Video Technology (TCSVT)*, accepted, 2021.
29. Wei Gao, **Qiuping Jiang**, Ronggang Wang, Siwei Ma, Ge Li, Sam Kwong, "Consistent quality-oriented rate control in HEVC via balancing intra and inter frame coding," *IEEE Transactions on Industrial Informatics (TII)*, accepted, 2021.
30. Wei Zhou, Jiahua Xu, **Qiuping Jiang**, Zhibo Chen, "No-reference quality assessment for 360-degree images by analysis of multi-frequency information and local-global naturalness," *IEEE Transactions on Circuits and Systems for Video Technology (TCSVT)*, accepted, 2021.
31. Xuejin Wang, Feng Shao, **Qiuping Jiang**, Zhenqi Fu, Xiangchao Meng, Ke Gu, Yo-Sung Ho, "Combining retargeting quality and depth perception measures for quality evaluation of retargeted stereopairs," *IEEE Transactions on Multimedia (TMM)*, accepted, 2021.
32. Xuejin Wang, Feng Shao, **Qiuping Jiang**, Xiongli Chai, Xiangchao Meng, Yo-Sung Ho, "List-wise rank learning for stereoscopic image retargeting quality assessment," *IEEE Transactions on Multimedia (TMM)*, in press, 2021.
33. Xuejin Wang, Feng Shao, **Qiuping Jiang**, Mengxiang Chao, Yo-Sung Ho, "Measuring coarse-to-fine texture and geometric distortions for quality assessment of DIBR-synthesized images," *IEEE Transactions on Multimedia (TMM)*, accepted, 2020.
34. Zhenqi Fu, Feng Shao, **Qiuping Jiang**, Xiangchao Meng, Yo-Sung Ho, "Subjective and objective quality assessment for stereoscopic 3D image retargeting," *IEEE Transactions on Multimedia (TMM)*, 23: 2100-2113, 2021.
35. Chao Huang, Zongju Peng, Yong Xu, Feng Chen, **Qiuping Jiang**, Yun Zhang, Gangyi Jiang, Yo-Sung Ho, "Online learning-based multi-stage complexity control for live video coding," *IEEE Transactions on Image Processing (TIP)*, 30: 641-656, 2021.
36. Xiongli Chai, Feng Shao, **Qiuping Jiang**, Yo-Sung Ho, "Roundness-Preserving Warping for Aesthetic Enhancement-based Stereoscopic Image Editing," *IEEE Transactions on Circuits and Systems for Video Technology (TCSVT)*, 31(4): 1463-1477, 2021.
37. Feng Shao, Zhenqi Fu, **Qiuping Jiang**, Gangyi Jiang, Yo-Sung Ho, "Transformation-aware similarity measurement for image retargeting quality assessment via bi-directional rewarping," *IEEE Transactions on Systems, Man and Cybernetics: Systems (TSMC-S)*, 51(5): 3053-3067, 2021.
38. Ke Gu, Xin Xu, Junfei Qiao, **Qiuping Jiang**, Weisi Lin, Daniel Thalmann, "Learning a unified blind image quality metric via on-line and off-line big training instances," *IEEE Transactions on Big Data (TBD)*, 6(4): 780-791, Dec. 2020.
39. Sheng Yang, Guosheng Lin, **Qiuping Jiang**, Weisi Lin, "A dilated inception network for visual saliency prediction," *IEEE Transactions on Multimedia (TMM)*, 22(8): 2163-2176, Aug. 2020.

40. Wujie Zhou, Jingsheng Lei, **Qiuping Jiang**, Lu Yu, Ting Luo, "Blind binocular visual quality predictor using deep fusion network," *IEEE Transactions on Computational Imaging (TCI)*, 6: 883-893, 2020.
41. Xiongli Chai, Feng Shao, **Qiuping Jiang**, Yo-Sung Ho, "MSTGAR: Multioperator based stereoscopic thumbnail generation with arbitrary resolution," *IEEE Transactions on Multimedia (TMM)*, 22(5): 1208-1219, May 2020.
42. Feng Shao, Ying Gao, **Qiuping Jiang**, Gangyi Jiang, Yo-Sung Ho, "Multistage pooling for quality prediction of asymmetric multiply distorted stereoscopic images," *IEEE Transactions on Multimedia (TMM)*, 20(10): 2605-2619, Oct. 2018.
43. Feng Shao, Zhuqing Zhang, **Qiuping Jiang**, Weisi Lin, Gangyi Jiang, "Towards domain transfer for no-reference quality prediction of asymmetrically distorted stereoscopic images," *IEEE Transactions on Circuits and Systems for Video Technology (TCSVT)*, 28(3): 573-585, Mar. 2018.
44. Wei Gao, Sam Kwong, **Qiuping Jiang**, Chi-Keung Fong, Peter H. W. Wong, Wilson Y. F. Yuen, "Data-Driven rate control for rate distortion optimization in HEVC based on simplified effective initial QP learning," *IEEE Transactions on Broadcasting (TBC)*, 65(1): 94-108, Mar. 2018.
45. Feng Shao, Wenchong Lin, Weisi Lin, **Qiuping Jiang**, Gangyi Jiang, "QoE-guided warping for stereoscopic image retargeting," *IEEE Transactions on Image Processing (TIP)*, 26(10): 4790-4805, Oct. 2017.