

姜求平 副教授/硕士生导师, 宁波大学



- ✧ 研究领域: 图像感知与增强、立体视觉、沉浸式媒体处理
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姜求平, 男, 浙江衢州人, 1991 年 7 月出生, 工学博士, 宁波市拔尖人才、中国图象图形学会多媒体专委会/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/视频信号处理、视觉感知计算与计算机视觉。2018 年 6 月于宁波大学信号与信息处理专业获博士学位, 博士期间由 CSC 资助赴新加坡南洋理工大学计算机学院进行联合培养, 2018 年 7 月以学术骨干身份(副教授)入职宁波大学从事教学科研工作, 2019 年入选宁波市“泛 3315 计划”创新个人, 2020 年入选宁波大学“浙东青年学者”培养对象。主持在研国家自然科学基金等各类科研项目 4 项, 在 IEEE TIP、TCYB、TMM、TCSVT、Pattern Recognition、ACM MM 等重要期刊/会议上发表论文 50 余篇(第一/通信作者 22 篇), 其中 IEEE 汇刊论文 28 篇(第一/通信作者 11 篇), 谷歌学术引用 850 余次, H 指数 17。获知名 SCI 期刊《Journal of Visual Communication and Image Representation》最佳论文提名奖(亚军, 1/5)、宁波市自然科学优秀论文二等奖(1/4)、浙江省优秀博士学位论文提名(1/1)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 (CCF-A 类)、ACM MM (CCF-A 类)、ICME (CCF-B 类)、ICIP (CCF-C 类)、APSIPA ASC、ChinaMM 等多个重要会议的领域主席、专题主席、程序委员会委员、青年论坛组织者等。

教育/工作经历

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|-------------------|--------|-----------|-----------|
| ✧ 2018/07-2022/11 | 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

- ✧ 国家自然科学基金, 面向适配显示的 3D 视频视觉体验质量评价与优化, 27 万, 主持
- ✧ 国家自然科学基金, 云覆盖光学遥感影像的时-空-谱融合方法研究, 25 万, 参与
- ✧ 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, 50 万, 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, 15 万, 主持
- ✧ 宁波市自然科学基金, 面向 3D 视频应用的视频适配技术研究, 5 万, 主持

学术兼职

国际会议领域/专题主席

- ✧ 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)
- ✧ 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)

国际权威 SCI 期刊审稿专家 (年均 30 篇+)

- ✧ IEEE Transactions on Neural Networks and Learning Systems (IEEE 神经网络与学习系统汇刊)
- ✧ IEEE Transactions on Cybernetics (IEEE 控制论汇刊)
- ✧ IEEE Transactions on Industrial Electronics (IEEE 工业电子汇刊)
- ✧ IEEE Transactions on Image Processing (IEEE 图像处理汇刊)
- ✧ IEEE Transactions on Medical Imaging (IEEE 医学影像汇刊)
- ✧ IEEE Transactions on Circuits and Systems for Video Technology (IEEE 视频技术汇刊)
- ✧ IEEE Transactions on Multimedia (IEEE 多媒体汇刊)
- ✧ IEEE Internet of Things Journal (IEEE 物联网汇刊)
- ✧ IEEE Signal Processing Letters (IEEE 信号处理快报)
- ✧ Elsevier Signal Processing: Image Communication (信号处理: 图像通讯)
- ✧ Elsevier Journal of Visual Communication and Image Representation (视觉通讯与图像表示)
- ✧ Elsevier Signal Processing (信号处理)
- ✧ Elsevier Neurocomputing (神经计算)

科研奖励与荣誉

- | | | |
|-----------|----------------------------|-----|
| ✧ 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 | 宁波市拔尖人才 | 1/1 |
| ✧ 2019/09 | 宁波市“泛 3315 计划”创新个人 | 1/1 |
| ✧ 2017/05 | JVCI 期刊(SCI 三区)最佳论文提名奖(亚军) | 1/5 |

学术论文

(IEEE 汇刊 28 篇, *通讯作者)

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.
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.
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. 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.
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. 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.
13. 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.
14. 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.
15. 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.
16. 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.
17. 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.
18. 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.
19. 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.
20. 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.
21. 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.
22. 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.
23. 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.

24. 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.
25. 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.
26. 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.
27. 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.
28. 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.

(其他第一/通讯作者 SCI 论文, 11 篇)

29. **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.
30. **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.
31. **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.
32. **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.
33. **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.
34. **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.
35. **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.
36. **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.
37. **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.
38. 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.
39. 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.