# 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**：宁波大学北校区信息学院杨咏曼楼 703
- ✧ **个人主页**：https://jiangqiuping.github.io/Homepage/
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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

- ✧ 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/国内重要期刊审稿专家（年均 30 余篇）**

- ✧ IEEE Transactions on Image Processing (IEEE 图像处理汇刊)
- ✧ IEEE Transactions on Circuits and Systems for Video Technology (IEEE 视频技术汇刊)
- ✧ IEEE Transactions on Multimedia (IEEE 多媒体技术汇刊)
- ✧ 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 Medical Imaging (IEEE 医学影像处理汇刊)
- ✧ IEEE Transactions on Broadcasting (IEEE 广播电视技术汇刊)
- ✧ IEEE Internet of Things Journal (IEEE 物联网汇刊)
- ✧ IEEE Multimedia Magazine (IEEE 多媒体技术杂志)
- ✧ IEEE Transactions on Emerging Topics in Computational Intelligence (IEEE 计算智能前沿汇刊)
- ✧ 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)
- ✧ CAAI Transactions on Intelligence Technology (中国人工智能学会智能技术汇刊)
- ✧ 电子学报、计算机学报、中国图象图形学报

## 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.