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**
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姜求平，男，浙江衢州人，1991 年 7 月出生，工学博士，浙江省杰出青年基金获得者、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。主持浙江省杰出青年科学基金、国家自然科学基金等各类科研项目 5 项，发表 IEEE 汇刊论文 34 篇（一作/通讯 12 篇），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。

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	联合培养	计算机工程学院	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，2022/01-2024/12，80 万，主持（在研）
- ✧ 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，2020/01-2022/12，27 万，主持（在研）
- ✧ 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，2019/06-2021/06，5 万，主持（结题）
- ✧ 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，2020/09-2023/09，15 万，主持（在研）
- ✧ 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，2018/07-2021/06，50 万，主持（结题）

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 (ICME2022)
- ✧ IEEE 国际多媒体与博览旗舰会议 2021 (ICME2021)
- ✧ 亚太信号与信息处理协会信号与信息处理国际峰会 2019 (APSIPA2019)

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（IJCAI2021; CCF-A 类会议）
- ✧ ACM 多媒体国际会议（ACM MM2021; CCF-类会议）
- ✧ IEEE 国际多媒体与博览旗舰会议（ICME2020-2022; CCF-B 类会议）
- ✧ IEEE 图像处理旗舰会议（ICIP2018-2020; CCF-C 类会议）
- ✧ 亚太信号与信息处理协会信号与信息处理国际峰会（APSIPA2020）
- ✧ IEEE 视觉通信与图像处理国际会议（VCIP2017-2020）

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 Broadcasting
- ✧ IEEE Transactions on Emerging Topics in Computational Intelligence
- ✧ IEEE Multimedia Magazine
- ✧ IEEE Signal Processing Letters
- ✧ ACM Computing Survey
- ✧ ACM Transactions on Multimedia Computing, Communications, and Applications
- ✧ Elsevier Signal Processing: Image Communication
- ✧ Elsevier Journal of Visual Communication and Image Representation
- ✧ Elsevier Signal Processing
- ✧ Elsevier Neurocomputing
- ✧ 电子学报、计算机学报、中国图象图形学报

奖励与荣誉

✧ 2021/12	浙江省杰出青年科学基金获得者	1/1
✧ 2021/12	宁波大学“乐歌创新奖励基金”教师创新奖	1/2
✧ 2021/12	宁波大学“工会积极分子”	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
✧ 2019/12	宁波大学“锋领党员”	1/1
✧ 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（拔尖人才层次）	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
✧ 2017/05	JVCI 期刊最佳论文荣誉提名奖(亚军)	1/5

学生指导与人才培养

- ✧ 2021 第十八届“华为杯”中国研究生数学建模竞赛（顾约瑟等），全国二等奖，唯一指导教师
- ✧ 2021 宁波大学乐歌创新奖励基金学生创新项目（康耀祖等），立项，唯一指导教师
- ✧ 2021 宁波大学乐歌创新奖励基金学生创新奖（毛煜东），二等奖，唯一指导教师
- ✧ 2021 硕士研究生国家奖学金（彭振宇），硕士生导师
- ✧ 2020 第十七届“华为杯”中国研究生数学建模竞赛（金康俊等），全国三等奖，唯一指导教师
- ✧ 2020 第二届集成电路 EDA 设计精英挑战赛（彭振宇等），全国三等奖，唯一指导教师

学术论文（Google 学术引用次数 1000+）

第一/通讯作者 SCI 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)***, in press, 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, Sep. 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)***, in press, 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)***, in press, 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. (最佳论文提名)
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. (亮点论文)
22. 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)***, 28: 2152-2156, 2021.
23. 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.
24. 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.

IEEE 汇刊（其他作者）

25. 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)***, 18(3): 1594-1604, 2021.
26. Sheng Yang, Weisi Lin, Guosheng Lin, **Qiuping Jiang**, Zichuan Liu, "Progressive Self-Guided Loss for Salient Object Detection," ***IEEE Transactions on Image Processing (TIP)***, 30: 8426-8438, 2021.
27. 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.
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)***, 23: 1173-1186, 2021.
29. 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.
30. 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.
31. 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.
32. Chao Huang, Zehua Yang, Jie Wen, Yong Xu, **Qiuping Jiang**, Jian Yang, Yaowei Wang, "Self-Supervision-Augmented Deep Autoencoder for Unsupervised Visual Anomaly Detection," ***IEEE Transactions on Cybernetics (TCYB)***, in press, 2021.
33. 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)***, in press, 2021.
34. 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)***, in press, 2021.
35. 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)***, in press, 2021.

36. 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)***, in press, 2021.
37. 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)***, in press, 2021.
38. 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.
39. 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.
40. 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.
41. 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.
42. 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.
43. 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.
44. 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.
45. 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.
46. 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.