

姜求平 教授/博士生导师, 宁波大学



- 研究领域: 视觉质量评价、视觉感知计算、计算机视觉
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姜求平, 男, 1991 年 7 月出生, 浙江衢州人, 现为宁波大学教授/博士生导师, IEEE Senior Member, 浙江省杰出青年基金获得者, 宁波市领军人才。入选斯坦福大学“全球前 2% 顶尖科学家”榜单、浙江省“院士结对培养青年英才”计划、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。现为浙江省信号处理学会理事, 中国图象图形学会多媒体专委会委员, 中国人工智能学会深度学习专委会委员, 担任 Pattern Recognition、Displays、Journal of Visual Communication and Image Representation、Journal of Electronic Imaging 等 SCI 期刊编委, IJCAI、AAAI、ACM MM、ICME、ICIP 等国际会议领域主席和程序委员会委员。

研究方向包括视觉信息质量评价、视觉感知计算、计算机视觉等。主持国家基金面上/青年、浙江省杰出青年基金等项目。在 IJCV、IEEE TIP、TMM、TCSVT、TCYB、TITS、ACM-MM 等国内外学术期刊和会议上发表论文 100 余篇, 其中 IEEE 汇刊 80 余篇 (第一/通讯 40 篇), 10 篇论文入选 ESI 高被引, 第一作者论文获《Journal of Visual Communication and Image Representation》最佳论文提名奖, 谷歌学术引用 3600 余次, H 指数 34, 授权国家发明专利 20 余项。获浙江省自然科学奖 (2022, 2/4)、宁波市科学技术奖 (2021, 2/4)、2019 年度浙江省优秀博士学位论文提名奖、2021-2022 年度宁波市自然科学优秀论文一等奖 (1/5) 等奖励。

工作经历

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|-------------------|-----------|-----------|
| ◆ 2023/01-至今 | 教授/博导 | 宁波大学信息学院 |
| ◆ 2022/03-2022/12 | 副教授/博导 | 宁波大学信息学院 |
| ◆ 2018/07-2022/03 | 副教授/硕导 | 宁波大学信息学院 |
| ◆ 2022/07-至今 | 工作借调 (挂职) | 浙江省科技厅高新处 |
| ◆ 2023/10-至今 | 副处长 (挂职) | 宁波大学科技处 |

科研项目

- ◆ 国家自然科学基金面上项目 (主持), 水下光学成像质量优化与人机共友好压缩关键技术研究, 2023.01-2026.12
- ◆ 国家自然科学基金青年项目 (主持), 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
- ◆ 浙江省自然科学基金杰出青年项目 (主持), 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
- ◆ 宁波市重点研发计划项目 (主持), 基于路测环境数字孪生的智能驾驶虚实迁移关键技术研究, 2024.04-2027.3
- ◆ 宁波市自然科学基金青年博士创新项目 (主持), 人机和谐的水下光学图像质量优化与压缩方法研究, 2022.09-2025.08
- ◆ 宁波市自然科学基金重点项目 (主持), 面向 3D 视频应用的视频适配技术研究, 2019.06-2021.06

学术服务

◆ 国际 SCI 期刊编委

- ◇ Pattern Recognition (2024-)
- ◇ Displays (2024-)
- ◇ Journal of Visual Communication and Image Representation (2023-)
- ◇ IET Image Processing (2021~2023)
- ◇ Journal of Electronic Imaging (2022~)
- ◇ APSIPA Transactions on Signal and Information Processing (2022~)

◆ 国际学术会议领域主席

- ◇ IEEE 国际多媒体与博览旗舰会议 2024 (ICME2024)
- ◇ IEEE 国际多媒体与博览旗舰会议 2023 (ICME2023)
- ◇ 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 2020 (APSIPA2020)
- ◇ 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

- ◇ 2022 国际先进人工智能协会年会(AAAI)
- ◇ 第 20 届国际人工智能联合会议 (IJCAI)
- ◇ ACM 多媒体国际会议 (ACM MM)
- ◇ IEEE 国际多媒体与博览旗舰会议 (ICME)
- ◇ IEEE 图像处理旗舰会议 (ICIP)
- ◇ 亚太信号与信息处理协会信号与信息处理国际峰会 (APSIPA)
- ◇ IEEE 视觉通信与图像处理国际会议 (VCIP)

代表性论文 (一作/通信 IJCV/IEEE 汇刊论文 42 篇)

1. **[IJCV-1]** Jingchun Zhou, Jiaming Sun, Chongyi Li*, **Qiuping Jiang***, Man Zhou, Kin-Man Lam, Weishi Zhang, Xianping Fu, "HCLR-Net: Hybrid Contrastive Learning Regularization with Locally Randomized Perturbation for Underwater Image Enhancement," *International Journal of Computer Vision*, 2024.
2. **[TNNLS-1]** **Qiuping Jiang**, Jinguang Chen, Zongwei Wu, Runmin Cong, Radu Timofte, "High-Precision Dichotomous Image Segmentation with Frequency and Scale Awareness," *IEEE Transactions on Neural Networks and Learning Systems*, 2024.
3. **[TIP-1]** **Qiuping Jiang**, Zhentao Liu, Shiqi Wang, Feng Shao, Weisi Lin, "Toward top-down just noticeable difference estimation of natural images," *IEEE Transactions on Image Processing*, 31: 3697-3712, 2022.
4. **[TIP-2]** **Qiuping Jiang**, Zhentao Liu, Ke Gu, Feng Shao, Xinfeng Zhang, Hantao Liu, Weisi Lin, "Single image super-resolution quality assessment: A real-world dataset, subjective studies, and an objective metric," *IEEE Transactions on Image Processing*, 31: 2279-2294, 2022.
5. **[TIP-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*, 28(4): 1866-1881, Apr. 2019. **ESI 高被引**
6. **[TIP-4]** Wujie Zhou, Fan Sun, **Qiuping Jiang***, Runmin Cong*, Jenq-Neng Hwang, "WaveNet: Wavelet Network with Knowledge Distillation for RGB-T Salient Object Detection," *IEEE Transactions on Image Processing*, 32: 3027-3039, 2023. **ESI 高被引**

7. **[TCSVT-1] Qiuping Jiang**, Xiao Yi, Li Ouyang, Jingchun Zhou, Zhihua Wang, "Towards Dimension-Enriched Underwater Image Quality Assessment," *IEEE Transactions on Circuits and Systems for Video Technology*, 2024.
8. **[TCSVT-2] Qiuping Jiang**, Feiyang Liu, Zhihua Wang, Shiqi Wang, Weisi Lin, "Rethinking and Conceptualizing Just Noticeable Difference Estimation by Residual Learning," *IEEE Transactions on Circuits and Systems for Video Technology*, 2024.
9. **[TCSVT-3] Qiuping Jiang**, Yuese Gu, Chongyi Li, Runmin Cong, Feng Shao, "Underwater Image Enhancement Quality Evaluation: Benchmark Database and Objective Metric," *IEEE Transactions on Circuits and Systems for Video Technology*, 32(9): 5959–5974, 2022. [ESI 高被引](#)
10. **[TCSVT-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*, 29(2): 323-335, Feb. 2019.
11. **[TCSVT-5] Binwei Xu, Qiuping Jiang***, Xing Zhao, Chenyang Lu, Haoran Liang, Ronghua Liang, "Multidimensional Exploration of Segment Anything Model for Weakly Supervised Video Salient Object Detection," *IEEE Transactions on Circuits and Systems for Video Technology*, in press, 2024.
12. **[TCSVT-6] Wu Chen, Qiuping Jiang***, Wei Zhou, Long Xu, Weisi Lin, "Dynamic Hypergraph Convolutional Network for No-Reference Point Cloud Quality Assessment," *IEEE Transactions on Circuits and Systems for Video Technology*, in press, 2024.
13. **[TCSVT-7] Wujie Zhou, Jiankang Hong, Xiaoxiao Ran, Weiqing Yan, Qiuping Jiang***, "DGPINet-KD: Deep Guided and Progressive Integration Network with Knowledge Distillation for RGB-D Indoor Scene Analysis," *IEEE Transactions on Circuits and Systems for Video Technology*, in press, 2024.
14. **[TCSVT-8] Wujie Zhou, Jiankang Hong, Wenqing Yan, Qiuping Jiang***, "Modal Evaluation Network via Knowledge Distillation for No-Service Rail Surface Defect Detection," *IEEE Transactions on Circuits and Systems for Video Technology*, 34(5): 3930-3942, 2024.
15. **[TCSVT-9] Yaozu Kang, Qiuping Jiang***, Chongyi Li, Wenqi Ren, Hantao Liu, Pengjun Wang, "A perception-aware decomposition and fusion framework for underwater image enhancement," *IEEE Transactions on Circuits and Systems for Video Technology*, 33(3): 988-1002, 2023. [ESI 高被引](#)
16. **[TCSVT-10] Jinguang Cheng, Zongwei Wu, Shuo Wang, Cedric Demonceaux, Qiuping Jiang***, "Bidirectional Collaborative Mentoring Network for Marine Organism Detection and Beyond," *IEEE Transactions on Circuits and Systems for Video Technology*, 33(11): 6595-6608, 2023.
17. **[TCSVT-11] Guanghui Yue, Houlu Xiao, Hai Xie, Tianwei Zhou, Wei Zhou, Weiqing Yan, Baoquan Zhao, Tianfu Wang, Qiuping Jiang***, "Dual-Constraint Coarse-to-Fine Network for Camouflaged Object Detection," *IEEE Transactions on Circuits and Systems for Video Technology*, in press, 2023.
18. **[TCSVT-12] 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)*, 32(6): 3422-3437, 2022.
19. **[TMM-1] Qiuping Jiang**, Yaozu Kang, Zhihua Wang, Wenqi Ren, Chongyi Li, "Perception-Driven Deep Underwater Image Enhancement without Paired Supervision," *IEEE Transactions on Multimedia*, 26: 4884-4897, 2024.
20. **[TMM-2] 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*, 20(8): 2035-2048, Aug. 2018. [ESI 高被引](#)
21. **[TMM-3] Yi Liu, Qiuping Jiang***, Xinyi Wang, Ting Luo, Jingchun Zhou, "Underwater Image Enhancement with Cascaded Contrastive Learning," *IEEE Transactions on Multimedia*, 2024.

22. [TMM-4] Wu Chen, **Qiuping Jiang***, Wei Zhou, Feng Shao, Guangtao Zhai, Weisi Lin, "No-Reference Point Cloud Quality Assessment via Graph Convolutional Network," *IEEE Transactions on Multimedia*, 2024.
23. [TMM-5] Binwei Xu, **Qiuping Jiang***, Haoran Liang, Dingwen Zhang, Ronghua Liang, Peng Chen, "Learning Video Salient Object Detection Progressively from Unlabeled Videos," *IEEE Transactions on Multimedia*, 2024.
24. [TMM-6] Jingchun Zhou, Shiyin Wang, Zifan Lin, **Qiuping Jiang***, Ferdous Sohel, "A Pixel Distribution Remapping and Multi-prior Retinex Variational Model for Underwater Image Enhancement," *IEEE Transactions on Multimedia*, 2024.
25. [TMM-7] Xuejin Wang, Leilei Huang, Hangwei Chen, **Qiuping Jiang***, Shaowei Weng, Feng Shao, "Benchmark Dataset and Pair-Wise Ranking Method for Quality Evaluation of Night-Time Image Enhancement," *IEEE Transactions on Multimedia*, 2024.
26. [TMM-8] Guanghui Yue, Shangjie Wu, Tianwei Zhou, Jie Du, Yu Luo, **Qiuping Jiang***, "Progressive Region-to-Boundary Exploration Network for Camouflaged Object Detection," *IEEE Transactions on Multimedia*, 2024.
27. [TMM-9] Zhihua Wang, **Qiuping Jiang***, Shanshan Zhao, Wensen Feng, Weisi Lin, "Deep Blind Image Quality Assessment Powered by Online Hard Example Mining," *IEEE Transactions on Multimedia*, 25: 4774-4784, 2023.
28. [TMM-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*, 24: 2435-2448, 2022.
29. [TMM-11] 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*, 23: 692-705, 2021.
30. [TGRS-1] Jingchun Zhou, Bo Zhang, Dehuan Zhang, Gemine Vivone, **Qiuping Jiang***, "DTKD-Net: Dual-Teacher Knowledge Distillation Lightweight Network for Water-related Optics Image Enhancement," *IEEE Transactions on Geoscience and Remote Sensing*, 2024.
31. [TGRS-2] Wujie Zhou, Xiaomi Fan, Weiqing Yan, Shengdao Shan, **Qiuping Jiang***, Jenq-Neng Hwang, "Graph Attention Guidance Network with Knowledge Distillation for Semantic Segmentation of Remote Sensing Images," *IEEE Transactions on Geoscience and Remote Sensing*, in press, 2023.
32. [TGRS-3] Wujie Zhou, Yangzhen Li, Juan Huang, Weiqing Yan, Meixin Fang*, **Qiuping Jiang***, "GSGNet-S*: Graph Semantic Guidance Network via Knowledge Distillation for Optical Remote Sensing Image Scene Analysis," *IEEE Transactions on Geoscience and Remote Sensing*, 61: 4508512, 2023.
33. [TITS-1] **Qiuping Jiang**, Yudong Mao, Runmin Cong, Wenqi Ren, Chao Huang, Feng Shao, "Unsupervised Decomposition and Correction Network for Low-light Image Enhancement," *IEEE Transactions on Intelligent Transportation Systems*, 23(10): 19440-19455, 2022.
34. [TITS-2] Wujie Zhou, Jiankang Hong, Xiaoxiao Ran, Weiqing Yan, **Qiuping Jiang***, "ADSANet-KD: Dual Semantic Approximation Network via Knowledge Distillation for Rail Surface Defect Detection," *IEEE Transactions on Intelligent Transportation Systems*, 2024.
35. [TII-1] **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*, 17(9): 6062-6072, Sep. 2021.
36. [TCYB-1] **Qiuping Jiang**, Feng Shao, Weisi Lin, Gangyi Jiang, "Learning sparse representation for objective image retargeting quality assessment," *IEEE Transactions on Cybernetics*, 48(4): 1276-1289, Apr. 2018.

37. **[TBC-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*, 68(1): 43-57, 2022.
38. **[TCL-1]** 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*, 6: 1622-1635, 2020.
39. **[TIM-1] 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*, 69(12): 9784-9796, Dec. 2020.
40. **[TIM-2] 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*, 69(10): 7398-7410, Oct. 2020.
41. **[TIM-3]** Runmin Cong, Haowei Yang, **Qiuping Jiang***, et al., "BCS-Net: Boundary, Context and Semantic for Automatic COVID-19 Lung Infection Segmentation from CT Images," *IEEE Transactions on Instrumentation and Measurement*, 71: 5019011, 2022.
42. **[JBHI-1]** Guanghui Yue, Guibin Zhuo, Tianwei Zhou, Weide Liu, Tianfu Wang, **Qiuping Jiang***, "Adaptive Cross-Feature Fusion Network with Inconsistency Guidance for Multi-Modal Brain Tumor Segmentation," *IEEE Journal of Biomedical and Health Informatics*, 2024.