



Qiuping Jiang

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OVERVIEW

- I am currently a Professor and Ph.D. Supervisor with the School of Information Science and Engineering, Ningbo University, Ningbo, China, and also the vice director of the Engineering Research Center of Multimedia Communication, Ministry of Education, China. I received my Ph.D. degree in Information and Communication Engineering from Ningbo University. From Jan. 2017 to Jun. 2018, I spent one and a half years visiting the School of Computer Science and Engineering, Nanyang Technological University, Singapore under the supervision of Prof. **Weisi Lin** (IEEE Fellow). The visit was supported by China Scholarship Council.
- I mainly research in the areas of perceptual image processing, visual perception modeling, and immersive multimedia computing. I have published more than 100 papers in referred journals and conferences including 3 IJCV papers and 80+ IEEE Transactions. My Google Scholar Citation number is 4300+, Google Scholar H-index is 36.
- I was elevated to **IEEE Senior Member** in June 2023. I am currently serving as the **Associate Editor** for *Pattern Recognition*, *Displays*, *Journal of Visual Communication and Image Representation*, and *Journal of Electronic Imaging*, the **Area Chair** for ICME 2022-2025, the **PC Member** for IJCAI/AAAI/ACM-MM/ICME, and the **Reviewer** for ACM CSUR/TOMM, IEEE TPAMI/TVCG/TIP/TCSVT/TMM/TNNLS, and Elsevier NEU-COM/KBS/SP/SPIC/JVCI, etc.
- I was the recipient of the World's Top 2% Scientists Announced by Stanford University (2022), the Distinguished Youth Scholar Funding by Natural Science Foundation of Zhejiang (2021), the Elsevier JVCI Best Paper Honorable Mention Award (2017), the Excellent Doctoral Dissertation Award of Zhejiang (2019), the Scientific and Technological Progress Award of Zhejiang (2022), the Leading Talent of Ningbo Municipality (2022), and the Innovative Talents of Ningbo Pan-3315 Plan (2019).

RESEARCH INTERESTS

- Perceptual image/video processing
- Image/video quality assessment/enhancement
- Computational imaging and photography
- Immersive multimedia computing and application

EDUCATION & WORK EXPERIENCE

- **Professor** 2023/01-Now
School of Information Science and Engineering
Engineering Research Center of Multimedia Communication, Ministry of Education, China
Ningbo University, Ningbo, China
- **Associate Professor** 2018/07-2022/12
School of Information Science and Engineering
Engineering Research Center of Multimedia Communication, Ministry of Education, China
Ningbo University, Ningbo, China
- **Research Assistant** 2017/01-2018/06
Multimedia Lab, School of Computer Science and Engineering
Nanyang Technological University, Singapore
Supervisor & Collaborator: Prof. Weisi Lin (IEEE/IET Fellow)
- **Ph.D. (Information and Communication Engineering)** 2012/09-2018/06
Ningbo University, Ningbo, China
Thesis: Research on 3D Visual Media Quality Evaluation and Optimization
- **B.E. (Communication Engineering)** 2008/09-2012/06
China Jiliang University, Hangzhou, China

RESEARCH GRANTS

- **(Principal Investigator)** “High-precision computational optical imaging and guidance system for unmanned intelligent manufacturing”, *Zhejiang Province Key Research and Development Project*, **CNY 8,000,000**, 2025/01-2027/12
- **(Principal Investigator)** “Underwater Optical Imaging Quality Optimization and Human-Machine Co-Friendly Compression”, *Natural Science Foundation of China (General Project)*, **CNY 702,000**, 2023/01-2026/12
- **(Principal Investigator)** “Underwater Image Quality Enhancement and Compression for Human and Artificial Intelligence”, *Natural Science Foundation of Ningbo (Distinguished Youth Scholar)*, **CNY 200,000**, 2022/09-2025/09
- **(Principal Investigator)** “Deep Learning-based Underwater Image Enhancement and Quality Evaluation”, *Natural Science Foundation of Zhejiang Province (Distinguished Youth Scholar)*, **CNY 800,000**, 2022/01-2024/12
- **(Principal Investigator)** “Visual Quality Evaluation and Optimization for Stereoscopic 3D Video Retargeting”, *National Natural Science Foundation of China (Youth Scholar)*, **CNY 316,000**, 2020/01-2022/12

- (Principal Investigator) “Deep Learning-based Blind Quality Assessment of In-the-wild Natural Images”, *Scientific Research Start-up Foundation Granted by Ningbo University*, CNY 500,000, 2018/07-2023/06

SELECTED PUBLICATIONS

- In Press:

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 (IJCV)*, in press, 2024.
2. Zhihua Wang, Keshuo Xu, Keyan Ding, **Qiuping Jiang**, Yifan Zuo, Zhangkai Ni, Yuming Fang, “CD-iNet: Deep Invertible Network for Perceptual Image Color Difference Measurement,” *International Journal of Computer Vision (IJCV)*, in press, 2024.
3. Jingchun Zhou, Qian Liu, **Qiuping Jiang**, Wenqi Ren, Kin-Man Lam, Weishi Zhang, “Underwater Camera: Improving Visual Perception Via Adaptive Dark Pixel Prior and Color Correction,” *International Journal of Computer Vision (IJCV)*, in press, 2023. **ESI Highly Cited Paper**
4. **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 (TNNLS)*, in press, 2024.
5. Hangwei Chen, Feng Shao, Xiongli Chai, **Qiuping Jiang**, Xiangchao Meng, Yo-Sung Ho, “Collaborative learning and style-adaptive pooling network for perceptual evaluation of arbitrary style transfer,” *IEEE Transactions on Neural Networks and Learning Systems (TNNLS)*, in press, 2024.
6. 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 (TCSVT)*, in press, 2024.
7. 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 (TMM)*, in press, 2024.
8. 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 (TMM)*, in press, 2024.
9. Xiao Yi, **Qiuping Jiang***, Li Ouyang, Jingchun Zhou, Zhihua Wang, “Towards Dimension-Enriched Underwater Image Quality Assessment,” *IEEE Transactions on Circuits and Systems for Video Technology (TCSVT)*, in press, 2024.
10. Guanghui Yue, Shangjie Wu, Tianwei Zhou, Gang Li, Jie Du, Yu Luo, **Qiuping Jiang***, “Progressive Region-to-Boundary Exploration Network for Camouflaged Object Detection,” *IEEE Transactions on Multimedia (TMM)*, in press, 2024.

11. Jianhui Jin, **Qiuping Jiang**, Qingyuan Wu, Binwei Xu, Runmin Cong, “Underwater Salient Object Detection via Dual-stage Self-paced Learning and Depth Emphasis,” *IEEE Transactions on Circuits and Systems for Video Technology (TCSVT)*, in press, 2024.
12. Yi Liu, **Qiuping Jiang***, Xinyi Wang, Ting Luo, Jingchun Zhou, “Underwater Image Enhancement with Cascaded Contrastive Learning,” *IEEE Transactions on Multimedia (TMM)*, in press, 2024.
13. 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 (TMM)*, in press, 2024.
14. 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 (TITS)*, in press, 2024.
15. 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 (JBHI)*, in press, 2024.
16. Baoyang Mu, Feng Shao, Zhengxuan Xie, Hangwei Chen, **Qiuping Jiang**, Yo-Sung Ho, “Visual Prompt Multi-Branch Fusion Network for RGB-Thermal Crowd Counting,” *IEEE Internet of Things Journal (IOTJ)*, in press, 2024.
17. Huixin Hu, Feng Shao, Huizhi Wang, Baoyang Mu, Hangwei Chen, **Qiuping Jiang**, Wenfei Chen, “Spatio-Temporal Feature Integration for Quality Assessment of Stitched Omnidirectional Images,” *IEEE Transactions on Emerging Topics in Computational Intelligence (TETCI)*, in press, 2024.

• 2024:

1. **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 (TCSVT)*, 34(10): 9515-9527, 2024.
2. **Qiuping Jiang**, Yaozu Kang, Zhihua Wang, Wenqi Ren, Chongyi Li, “Perception-Driven Deep Underwater Image Enhancement without Paired Supervision,” *IEEE Transactions on Multimedia (TMM)*, 26: 4884-4897, 2024.
3. 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 (TCSVT)*, 34(10): 10479-10493, 2024.
4. 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 (TCSVT)*, 34(9): 7844-7855, 2024.
5. 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 (TCSVT)*, 34(5): 3286-3298, 2024.
6. 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 (TMM)*, 26: 9436-9449, 2024.
 7. 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 (TCSVT)*, 34(5): 3930-3942, 2024.
 8. Wujie Zhou, Yangzhen Li, Juan Huang, Yuanyuan Liu, Qiuping Jiang*, “MSTNet-KD: Multilevel transfer networks using knowledge distillation for the dense prediction of remote-sensing images,” *IEEE Transactions on Geoscience and Remote Sensing*, 62: 4504612, 2024.
 9. 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 (TMM)*, 26: 7838-7849, 2024.
 10. 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 (TGRS)*, 62: 4207213, 2024.
 11. Wei Zhou, Qi Yang, Wu Chen, Qiuping Jiang*, Guangtao Zhai, Weisi Lin, “Blind Quality Assessment of Dense 3D Point Clouds with Structure Guided Resampling,” *ACM Transactions on Multimedia Computing, Communications and Applications (TOMM)*, 20(8): Article No.: 247, 2024.
 12. Xiongli Chai, Feng Shao, Baoyang Mu, Hangwei Chen, Qiuping Jiang, Yo-Sung Ho, “Plain-PCQA: No-Reference Point Cloud Quality Assessment by Analysis of Plain Visual and Geometrical Components,” *IEEE Transactions on Circuits and Systems for Video Technology (TCSVT)*, 34(7): 6207-6223, 2024.
 13. Yi Luo, Feng Shao, Baoyang Mu, Hangwei Chen, Zhuo Li, Qiuping Jiang, “Dynamic Weighted Fusion and Progressive Refinement Network for Visible-Depth-Thermal Salient Object Detection,” *IEEE Transactions on Circuits and Systems for Video Technology (TCSVT)*, 34(11): 10662-10677, 2024.
 14. Guanghui Yue, Honglv Wu, Qiuping Jiang, Tianwei Zhou, Weiqing Yan, Tianfu Wang, “Perceptual quality assessment of retouched face images,” *IEEE Transactions on Multimedia (TMM)*, 26: 5741-5752, 2024.
 15. Jingchun Zhou, Shiyin Wang, Dehuan Zhang, Qiuping Jiang, Kui Jiang, Yi Lin, “Decoupled variational retinex for reconstruction and fusion of underwater shallow depth-of-field image with parallax and moving objects,” *Information Fusion*, 111: 102494, 2024.
 16. Chao Huang, Chengliang Liu, Jie Wen, Yong Xu, Qiuping Jiang, Yaowei Wang, “Weakly Supervised Video Anomaly Detection via Self-Guided Temporal Discriminative Transformer,” *IEEE Transactions on Cybernetics (TCYB)*, 54(5): 3197-3210, 2024.

17. Xiongli Chai, Feng Shao, **Qiuping Jiang**, Xuejin Wang, Long Xu, Yo-Sung Ho, “Blind Quality Evaluator of Light Field Images by Group-Based Representations and Multiple Plane-Oriented Perceptual Characteristics,” *IEEE Transactions on Multimedia (TMM)*, 26: 607-622, 2024.
 18. Gang Chen, Xiongli Chai, Feng Shao, **Qiuping Jiang**, Yo-Sung Ho, “Multi-stage Salient Object Detection in 360° Omnidirectional Image Aiding by Object-Level Semantic Information,” *IEEE Transactions on Emerging Topics in Computational Intelligence (TETCI)*, 8(1): 776-789, 2024.
- 2023:
1. 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 (TMM)*, 25: 4774-4784, 2023.
 2. 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 (TCSVT)*, 33(11): 6595-6608, 2023.
 3. 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 (TIP)*, 32: 3027-3039, 2023. **ESI Highly Cited Paper**
 4. 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 (TCSVT)*, 33(3): 988-1002, 2023. **ESI Highly Cited Paper**
 5. 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 (TGRS)*, 61: 4506015, 2023.
 6. 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 (TGRS)*, 61: 4508512, 2023.
 7. Guanghui Yue, Peishan Wei, Tianwei Zhou, **Qiuping Jiang**, Weiqing Yan, Tianfu Wang, “Towards Multi-Center Skin Lesion Classification Using Deep Neural Network with Adaptively Weighted Balance Loss,” *IEEE Transactions on Medical Imaging (TMI)*, 42(1): 119-131, 2023.
 8. Chao Huang, Jie Wen, Yong Xu, **Qiuping Jiang**, Jian Yang, Yaowei Wang, David Zhang, “Self-supervised attentive generative adversarial networks for video anomaly detection,” *IEEE Transactions on Neural Networks and Learning Systems (TNNLS)*, 34(11): 9389-9403, 2023.
 9. Zhengxuan Xie, Feng Shao, Gang Chen, Hangwei Chen, **Qiuping Jiang**, Xiangchao Meng, Yo-Sung Ho, “Cross-Modality Double Bidirectional Interaction and Fusion Network for RGB-T Salient Object Detection,” *IEEE Transactions on Circuits and Systems for Video Technology (TCSVT)*, 33(8): 4149-4163, 2023..

10. Chongzhen Tian, Feng Shao, Xiongli Chai, **Qiuping Jiang**, Long Xu, Yo-Sung Ho, "Viewport-Sphere-Branch Network for Blind Quality Assessment of Stitched 360° Omnidirectional Images," *IEEE Transactions on Circuits and Systems for Video Technology (TCSVT)*, 33(6): 2546-2560, 2023.
11. Hangwei Chen, Feng Shao, Xiongli Chai, Yuese Gu, **Qiuping Jiang**, Xiangchao Meng, Yo-Sung Ho, "Quality Evaluation of Arbitrary Neural Style Transfer: Subjective Study and Objective Metric," *IEEE Transactions on Circuits and Systems for Video Technology (TCSVT)*, 33(7): 3055-3070, 2023.
12. Runmin Cong, Qi Qin, Chen Zhang, **Qiuping Jiang**, Shiqi Wang, Sam Kwong, "A Weakly Supervised Learning Framework for Salient Object Detection via Hybrid Labels," *IEEE Transactions on Circuits and Systems for Video Technology (TCSVT)*, 33(2): 534-548, 2023. **ESI Highly Cited Paper**
13. 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)*, 25: 140-153, 2023.
14. Gang Chen, Feng Shao, Xiongli Chai, Hangwei Chen, **Qiuping Jiang**, Xiangchao Meng, Yo-Sung Ho, "Modality-Induced Transfer-Fusion Network for RGB-D and RGB-T Salient Object Detection," *IEEE Transactions on Circuits and Systems for Video Technology (TCSVT)*, 33(4): 1787-1801, 2023.
15. Guanghui Yue, Siying Li, Tianwei Zhou, Miaohui Wang, Jingfeng Du, **Qiuping Jiang**, Wei Gao, Tianfu Wang, "Adaptive Context Exploration Network for Polyp Segmentation in Colonoscopy Images," *IEEE Transactions on Emerging Topics in Computational Intelligence (TETCI)*, 7(2): 487-499, 2023.
16. Xiaoyu Zhang, Wei Gao, Ge Li, **Qiuping Jiang**, Runmin Cong, "Image Quality Assessment Driven Reinforcement Learning for Mixed Distorted Image Restoration," *ACM Transactions on Multimedia Computing, Communications, and Applications (TOMM)*, 19(1): 1-23, 2023.

• 2022:

1. **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 (TIP)*, 31: 2279-2294, 2022.
2. **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 (TIP)*, 31: 3697-3712, 2022.
3. **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 (TITS)*, 23(10):19440-19455, 2022.
4. **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 (TCSVT)*, 32(9): 5959-5974, 2022. **ESI Highly Cited Paper**

5. **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)*, 68(1): 43-57, 2022.
6. 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.
7. 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)*, 24: 2435-2448, 2022.
8. Runmin Cong, Haowei Yang, **Qiuping Jiang***, Wei Gao, Haisheng Li, Cong Wang, Yao Zhao, Sam Kwong, “BCS-Net: Boundary, Context, and Semantic for Automatic COVID-19 Lung Infection Segmentation From CT Images,” *IEEE Transactions on Instrumentation and Measurement (TIM)*, 71: 5019011, 2022.
9. 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, 2022.
10. 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)*, 18(8): 5171-5179, 2022.
11. 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)*, 52(12): 13834-13847, 2022.
12. 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)*, 24: 1595-1608, 2022.
13. 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)*, 24: 2422-2434, 2022.
14. Chongzhen Tian, Xiongli Chai, Gang Chen, Feng Shao, **Qiuping Jiang**, Xiangchao Meng, Long Xu, Yo-Sung Ho, “VSOIQE: A Novel Viewport-based Stitched 360° Omnidirectional Image Quality Evaluator,” *IEEE Transactions on Circuits and Systems for Video Technology (TCSVT)*, 32(10): 6557-6572, 2022.
15. Gang Chen, Feng Shao, Xiongli Chai, Hangwei Chen, **Qiuping Jiang**, Xiangchao Meng, Yo-Sung Ho, “CGMDRNet: Cross-Guided Modality Difference Reduction Network for RGB-T Salient Object Detection,” *IEEE Transactions on Circuits and Systems for Video Technology (TCSVT)*, 32(9): 6308-6323, 2022.
16. 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)*, 32(6): 3407-3421, 2022.

17. 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)*, 32(4): 1778-1791, 2022.

• 2021:

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 (TII)*, 17(9): 6062-6072, Sept. 2021.
2. 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.
3. 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.
4. 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.
5. 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.
6. Xuejin Wang, Feng Shao, **Qiuping Jiang**, Xiangchao Meng, 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.
7. 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.
8. 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.
9. 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 Circuits and Systems for Video Technology (TCSVT)*, 51(5): 3053-3067, 2021.

• 2020:

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 (TIM)*, 69(12): 9784-9796, 2020.
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 (TIM)*, 69(10): 7398-7410, 2020.

3. 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.
4. 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, 2020.
5. 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, 2020.
6. 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.
7. 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, 2020.
8. Wei Zhou, **Qiuping Jiang**, Yuwang Wang, Zhibo Chen, Weiping Li, “Blind quality assessment for image superresolution using deep two-stream convolutional networks,” *Information Sciences (INS)*, 528: 205-218, 2020.
9. Xuejin Wang, Meiling Qi, Feng Shao, **Qiuping Jiang**, Xiangchao Meng, “Blind quality assessment for multiply distorted stereoscopic images towards IoT-based 3D capture systems,” *Journal of Visual Communication and Image Representation*, 71:102868, 2020.
10. Jinbin Hu, Xuejin Wang, Feng Shao, **Qiuping Jiang**, “TSPR: Deep network-based blind image quality assessment using two-side pseudo reference images,” *Digital Signal Processing*, 106:102849, 2020.
11. Yiming Xiong, Feng Shao, Xiangchao Meng, **Qiuping Jiang**, Weiwei Sun, Randi Fu, Yo-Sung Ho, “A large-scale remote sensing database for subjective and objective quality assessment of pansharpened images,” *Journal of Visual Communication and Image Representation*, 73:102947, 2020.
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• 2019:

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7. 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, 2019.
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9. Chao Huang, Zongju Peng, Fen Chen, **Qiuping Jiang**, Xin Cui, Gangyi Jiang, “Encoding complexity control for live video applications: an interpretable machine learning approach,” *in Proc. of the IEEE International Conference on Multimedia and Expo (ICME)*, Shanghai, China, 2019.

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3. **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, 2018.
4. 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, 2018.
5. 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, 2018.
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• **2017 & Before:**

1. **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, 2017.
2. **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, 2016.
3. **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, 2015. **2017 JVCI Best Paper Hornerable Mention Award**
4. **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, 2015.
5. **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, 2017.
6. **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, 2015. **Featured Article**
7. **Qiuping Jiang**, Feng Shao, Gangyi Jiang, "MSFE: Blind image quality assessment based on multi-stage feature encoding," in *Proc. of the IEEE International Conference on Image Processing (ICIP)*, Beijing, China, 2017.
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9. 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, 2017.

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HONORS & AWARDS

- 2023 First Prize of Outstanding Scientific Paper Award by Ningbo Municipality
- 2022 World’s Top 2% Scientists Announced by Stanford University
- 2022 Zhejiang Provincial Science and Technology Award
- 2021 Ningbo Municipal Science and Technology Award
- 2021 Distinguished Youth Scholar Funding by Zhejiang Natural Science Foundation
- 2020 East Zhejiang Young Scholar by Ningbo University
- 2019 Top Talent of Ningbo Municipality
- 2019 Innovative Talents of Ningbo Municipal Pan-3315 Plan
- 2019 Zhejiang Provincial Outstanding Doctoral Dissertation Nomination Award
- 2019 Second Prize of Outstanding Scientific Paper Award by Ningbo Municipality
- 2018 Outstanding Doctoral Dissertation Award by Ningbo University
- 2018 First Prize of Cao Guangbiao Scientific Achievements Award by Ningbo University
- 2017 Elsevier JVCi Best Paper Honorable Mention Award

ACADEMIC ACTIVITIES

- **Professional Memberships:**
 - IEEE Senior Member (2023-)
 - Member of China Society of Image and Graphics (CSIG) (2018-)
 - Member of China Computer Federation (CCF) (2018-)
 - Member of Chinese Association for Artificial Intelligence (CAAI) (2019-)
- **Associate Editor:**
 - Associate Editor, *Pattern Recognition* (2024.11-)
 - Associate Editor, *Displays* (2024.7-)
 - Associate Editor, *Journal of Visual Communication and Image Representation* (2024.1-)
 - Associate Editor, *Journal of Electronic Imaging* (2023.2-)
- **Area Chair:**
 - Area Chair, IEEE International Conference on Multimedia and Expo (ICME) 2022-2025

- **Reviewer:** ACM Computing Survey, ACM Transactions on Multimedia Computing, Communications, and Applications (TOMM), IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI), IEEE Transactions on Visualization and Computer Graphics (TVCG), IEEE Transactions on Image Processing (TIP), IEEE Transactions on Neural Networks and Learning Systems (TNNLS), IEEE Transactions on Cybernetics (TCYB), IEEE Transactions on Medical Imaging (TMI), IEEE Transactions on Multimedia (TMM), IEEE Transactions on Circuits and Systems for Video Technology (TCSVT), IEEE Transactions on Broadcasting (TBC), IEEE Transactions on Industrial Electronics (TIE), IEEE Transactions on Industrial Informatics (TII), IEEE Transactions on Instrumentation and Measurement (TIM), IEEE Internet of Things Journal (IOTJ), IEEE Multimedia Magazine (MM), IEEE Transactions on Emerging Topics in Computational Intelligence (TETCI), IEEE Signal Processing Letters (SPL), IEEE Journal of Oceanic Engineering (JOE), Neurocomputing (NEUCOM), Signal Processing (SP), Journal of Visual Communication and Image Representation (JVCI), Signal Processing: Image Communication (SPIC)
- **PC Member:** ACM International Conference on Multimedia (ACM MM), AAAI Conference on Artificial Intelligence (AAAI), International Joint Conference on Artificial Intelligence (IJCAI), IEEE International Conference on Multimedia and Expo (ICME), IEEE International Conference on Image Processing (ICIP), IEEE Visual Communications and Image Processing Conference (VCIP), Asia-Pacific Signal and Information Processing Association Annual Summit and Conference (APSIPA ASC)