

# Dr. SUI Xiangjie

## PERSONAL INFORMATION

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Assistant Professor  
Faculty of Data Science  
City University of Macau  
Macau SAR, China  
Tel.: +(853)-8590-2344  
Office: Room S502, Stanley Ho Building  
Email: [xjsui@cityu.edu.mo](mailto:xjsui@cityu.edu.mo)  
Google Scholar: <https://scholar.google.com/citations?user=IAnTG2cAAAAJ&hl>  
Interests: Artificial Intelligence      Image/Video Processing  
              Visual Quality Assessment      Virtual Reality

## EDUCATION

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09/2021–06/2024    **Ph.D., Service computing and applications**  
                          Jiangxi University of Finance and Economics, Nanchang, China  
                          **Thesis:** Perceptual quality assessment of panoramic images based on visual scanpath  
                          **Advisor:** Prof. Fang Yuming  
09/2018–06/2021    **M.Sc., Computer Science and Technology**  
                          Jiangxi University of Finance and Economics, Nanchang, China  
                          **Thesis:** Perceptual quality assessment of asymmetrically distorted 3D videos  
                          **Advisor:** Prof. Fang Yuming  
09/2014–06/2018    **B.Sc., Computer Science and Technology**  
                          Jiangxi University of Finance and Economics, Nanchang, China

## WORKING EXPERIENCE

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08/2024–Now        **Faculty of Data Science, City University of Macau**  
                          Position: Assistant Professor  
05/2023–06/2024    **Dept. of Computer Science, City University of Hongkong**  
                          Position: Research Assistant  
                          Supervisor: Prof. Wang Shiqi

## TEACHING

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**Database System**, spring, 2025.  
**Linear Algebra**, fall, 2024.  
**Introduction to Operating Systems**, fall, 2024.

## HONORS, AWARDS & SCHOLARSHIPS

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Excellent Master's Thesis in Jiangxi Province, China, 2023.  
Outstanding Report Award of the 2nd Postgraduate Academic Forum of Journal of Image and Graphics, 2022.  
National Scholarship for Doctoral Student, 2022.  
China Council Scholarship, 2021.  
Top-15 most prominent papers published in Journal of Image and Graphics, 2021.  
National Scholarship for Master Student, 2020.

## Journal Reviewer

IEEE Transactions on Multimedia  
 IEEE Transactions on Circuits and Systems for Video Technology  
 IEEE Transactions on Emerging Topics in Computational Intelligence  
 IEEE Signal Processing Letters

## Conference Reviewer

International Conference on Computer Vision  
 IEEE International Conference on Multimedia and Expo

## SUPERVISIONS

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### Supervised MSc Students

2024	<b>Li Songyang</b> <b>Su Yanguang</b>	<b>Thesis:</b> Image quality assessment <b>Thesis:</b> Deepfake detection
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### Supervised BSc Students

2024	<b>Zhang Xuanwei, Li Yitian, Nie Junquan, Lin Zenan</b> <b>Major:</b> Intelligence Technology and Services <b>Thesis:</b> Automatic cinematography for panoramic videos
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## PUBLICATIONS

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### Journal Publications

- [J1] ZHU, H., SUI, XIANGJIE\*, CHEN, B., LIU, X., CHEN, P., FANG, Y., AND WANG, S. 2afc prompting of large multimodal models for image quality assessment. *IEEE Transactions on Circuits and Systems for Video Technology* 34, 12 (2024), 12873–12878
- [J2] WEN, W., LI, M., YAO, Y., SUI, XIANGJIE, ZHANG, Y., LAN, L., FANG, Y., AND MA, K. Perceptual quality assessment of virtual reality videos in the wild. *IEEE Transactions on Circuits and Systems for Video Technology* 34, 9 (2024), 8368–8381
- [J3] FANG, Y., LI, Z., YAN, J., SUI, XIANGJIE, AND LIU, H. Study of spatio-temporal modeling in video quality assessment. *IEEE Transactions on Image Processing* 32 (2023), 2693–2702
- [J4] SUI, XIANGJIE, MA, K., YAO, Y., AND FANG, Y. Perceptual quality assessment of omnidirectional images as moving camera videos. *IEEE Transactions on Visualization and Computer Graphics* 28, 8 (2022), 3022–3034
- [J5] FANG, Y., SUI, XIANGJIE, WANG, J., YAN, J., LEI, J., AND LE CALLET, P. Perceptual quality assessment for asymmetrically distorted stereoscopic video by temporal binocular rivalry. *IEEE Transactions on Circuits and Systems for Video Technology* 31, 8 (2021), 3010–3024
- [J6] SUI, XIANGJIE, DING, M., YAN, J., FANG, Y., ZUO, Y., AND TAN, Z. Objective quality assessment of synthesized images by local variation measurement. *Signal Processing: Image Communication* 92 (2021), 116096
- [J7] FANG, Y., SUI, XIANGJIE, YAN, J., ZUO, Y., WANG, J., AND LI, Z. Asymmetrically distorted 3d video quality assessment: From the motion variation to perceived quality. *Signal Processing* 183 (2021), 108031

## Conference Publications

- [C1] SUI, XIANGJIE, WANG, S., AND FANG, Y. A survey on objective quality assessment of omnidirectional images. In *Asia Pacific Signal and Information Processing Association Annual Summit and Conference* (Dec. 2024), pp. 1–6
- [C2] SUI, XIANGJIE, FANG, Y., ZHU, H., WANG, S., AND WANG, Z. Scandmm: A deep markov model of scanpath prediction for 360deg images. In *IEEE Conference on Computer Vision and Pattern Recognition* (June 2023), pp. 6989–6999
- [C3] FANG, Y., YAO, Y., SUI, XIANGJIE, AND MA, K. Subjective quality assessment of user-generated 360° videos. In *IEEE Conference on Virtual Reality and 3D User Interfaces Abstracts and Workshops* (Mar. 2023), pp. 723–724
- [C4] LI, G., SUI, XIANGJIE, YAN, J., AND FANG, Y. Benchmarking 360° saliency models by general-purpose metrics. In *IEEE International Workshop on Multimedia Signal Processing* (Sep. 2022), pp. 1–6
- [C5] FANG, Y., SUI, XIANGJIE, AND WANG, J. A spatial-temporal weighted method for asymmetrically distorted stereo video quality assessment. In *IEEE International Symposium on Circuits and Systems* (May 2019), pp. 1–5

April 1, 2025