

Call For Papers

Special Session: Visual Human-Computer Interaction

Conference: The 2023 International Conference on Cyber-physical Social Intelligence (ICCSI)

Date: October 20-23, 2023

Meeting mode: In-person

Location: Xi'an, China

Web site: <https://agist.org/iccsi2023>

Human-computer interaction (HCI) is a key technology in the field of computer science. Visual HCI has attracted much attention worldwide in recent years for its non-contact and natural performance. Visual HCI mainly includes hand gesture interaction, body action interaction, gaze orientation interaction, and facial expression interaction. These technologies can be widely used in, for example, virtual reality, driver monitoring systems, visual diagnosis of autistic patients, and human-robot interaction. Driven by deep learning and big data, the visual HCI has made great progress in both theory and application. This research topic will bring together researchers, industry experts, practitioners, and potential citizen scientists who are interested in cultivating specialized and important aspects of data science and analytics in the context of HCI.

This research topic aims to address the application of computer vision in human-computer interaction. On the one hand, with the rapid development of artificial intelligence technology such as deep learning and its wide application in computer vision, visual human-computer interaction has also developed rapidly. Visual HCI, which is mainly based on hand, body, eye, and facial expression, has also made great progress. On the other hand, with the outbreak of the COVID-19, visual HCI has been used more and more in various fields, such as aerospace, home care, medical rehabilitation, and epidemic prevention and control, due to its non-contact performance. We hope to collect state-of-the-art visual HCI research and its applications in various fields.

Interested topics include (but not limited to):

- Hand gesture-based HCI
- Body action-based HCI
- Gaze orientation-based HCI
- Facial expression-based HCI
- Multimodal perception-based HCI methods
- Research dealing with visual HCI application researches.

Important Dates:

March 31, 2023,	Letter of intent for paper contribution
May 15, 2023,	Full paper submission
July 1, 2023,	Acceptance/Rejection notification
August 31, 2023,	Final camera-ready papers due

Special Session Co-chairs:

Dr. Qing Gao(Sun Yat-sen University, China), email: gaoqing2@mail.sysu.edu.cn

Dr. Yuquan Leng (Southern University of Science and Technology, China), Email: lengyq@sustech.edu.cn

Dr. Xin Zhang (Shenyang Institute of Automation, Chinese Academy of Sciences), Email: zhangxin@sia.cn

Dr. Jiahui Yu (Zhejiang University, China), email:jiahui.yu@zju.edu.cn

All inquiries about the session, including the letter of intent, should be sent to any of the co-chairs above