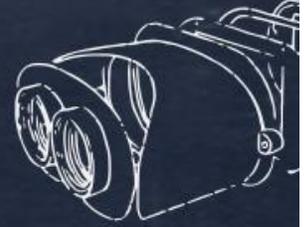




JOURNAL OF PERCEPTUAL IMAGING

SPECIAL ISSUE CALL FOR PAPERS

Interactive Perceptual Imaging



Submission deadline: October 15, 2022

Paul MacNeilage, University of Nevada, Reno, Guest Editor

This special issue of the *Journal of Perceptual Imaging* focuses on **interactive perceptual imaging**, in which the presentation of sensory information is contingent on user action. These techniques are fundamental to many imaging systems, including Virtual, Augmented, and Mixed Reality. Any research using interactive paradigms to investigate perception during action is relevant to this special issue. Candidate topics include:

- Rendering of visual or auditory stimuli contingent on head movements.
- Rendering of visual stimuli contingent on eye movements.
- Rendering of haptic/tactile stimuli contingent on finger and hand movements and gestures.
- Research on tracking methods that enable user interaction, including the tracking of head, eye, hand, or body movement.
- Research on wearable display systems for active users.
- Research on latency between the detection of user movement and display of the contingent stimulus.
- Research on motor control and adaptation mechanisms that predict the sensory consequences of motor actions and evaluate how predictions deviate from rendered stimuli.

Keywords: Interactive sensory systems, HCI, virtual reality, augmented reality, mixed reality, vision, touch, audition, tracking, eye movements

Publication: April/May 2023

Opportunity to present: Papers published in this special session are eligible for presentation at the 2023 [Conference on Human Vision and Electronic Imaging \(HVEI\)](#), and will receive a 50% discount on Conference registration fees.

Submission and Review

Submission details are found via [JPI Author Guidelines](#). Prospective authors can submit complete manuscripts electronically via <https://jpi.msubmit.net/> by **October 15, 2022**. All submitted papers will be peer-reviewed and selected based on their originality, significance, relevance, and clarity of presentation.

The [Journal of Perceptual Imaging](#) (JPI) is a multidisciplinary journal of the Society for Imaging Science and Technology. The goal is to provide a premiere archival journal that promotes research into how principles of perception and cognition support and inspire new technologies and applications, and how emerging technologies drive new questions for perceptual research. This is an open access journal; its papers are indexed by all major search engines; and all papers are peer-reviewed by at least three experts versed in the multiple disciplines explored. Experimental, computational, theoretical, and survey papers are encouraged. JPI welcomes submissions from all areas of human perception and cognition, including haptic and multisensory perception, from all technologies that interface with humans, including art, and from all application areas.

