

Special Issue

Intelligent Sensing and Haptic Interfaces for Next-Generation Human-Computer Interaction

Message from the Guest Editor

The field of Human-Computer Interaction (HCI) is undergoing a profound transformation. The evolution is driven by two key technological frontiers: intelligent sensing, powered by Artificial Intelligence (AI) for interpreting user state and environment, and advanced haptics, enabling rich, bidirectional communication through the sense of touch. This Special Issue explores the cutting-edge convergence of AI, advanced sensing, and haptics to redefine the future of HCI. We seek research that moves beyond traditional interfaces, creating systems that can intelligently perceive user state and context, and respond with meaningful tactile feedback. Join us in shaping the next generation of immersive, intuitive, and intelligent interactive experiences. Topics of interest include, but are not limited to, the following:

- AI-driven interpretation of multimodal sensor data for user intent recognition.
- Machine learning for adaptive and personalized haptic feedback.
- Novel haptic rendering techniques for creating realistic virtual textures and forces.
- Novel haptic interfaces.
- Sensorimotor integration in intelligent HCI system.
- Applications in VR/AR, robotics, medicine, automotive, and beyond.

Guest Editor

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Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. *Sensors* organizes Special Issues devoted to specific sensing areas and applications each year.

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