Human-Computer Interaction Techniques and Applications

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Deadline for manuscript submissions:
15 October 2024

Message from the Guest Editors

Dear Colleagues,

Human-computer interaction (HCI) plays a pivotal role in shaping the way individuals interact with technology, bridging the gap between human capabilities and system functionality. There exists a spectrum of interaction modalities, ranging from traditional keyboard and mouse inputs to emerging technologies such as gesture recognition, speech inputs, generative AI, and virtual and augmented reality.

The emergence of new technological advancements, including generative artificial intelligence, mobile computing, Internet of Things (IoT), extended reality, and virtual and augmented reality, have created new requirements for the effective design of user experiences and introduced opportunities for novel interaction methods and approaches.

This Special Issue is dedicated to disseminating high-quality, original research papers, works in progress, surveys, reviews, and opinion pieces on research related to human-computer interaction, covering the following topics (among others):

- Human-computer interaction theory;
- Multimodal interaction;
- Natural language interaction;
- Intelligent user interfaces;
- User-centered design;
- IoT for human-computer interaction;

Special Issue

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Message from the Editor-in-Chief

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