

Special Issue

Intelligent Human-Computer Interaction Systems and Their Evaluation

Message from the Guest Editors

Advances in modern user interfaces (UI) and artificial intelligence (AI) have enabled the development of intelligent user interfaces (IUI) that allow new ways of interacting with devices. Intelligent solutions based on sensor technology, IoT, AI methods, and algorithms can leverage various information about users, for enriching devices with IUIs and natural HCI that enable improved productivity, efficiency, and user experience (UX). Novel AI methods and algorithms which will be able to use data obtained from various sensor technologies for pattern recognition and personalization of UIs and HCI according to the characteristics and capabilities of the user.

This Special Issue is dedicated to exploring current trends and challenges in research, as well as opportunities related to intelligent HCIs from the following perspectives:

- Novel AI solutions for innovative HCI solutions that will improve accessibility, trust, UX, and explainability of interactive intelligent systems.
- How new advances in intelligent HCI and its applications can be applied in various contexts.
- Newly developed and validated theories and models for empirical evaluation of intelligent UX.

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