Special Issue

Novel Sensing Technologies and Artificial Intelligence for Human–Computer Interaction

Message from the Guest Editors

Two technological developments are offering new possibilities for people to interact with computing devices. On the one hand, there has been a rapid growth in new sensing technologies. The new generation of sensors is small and can be integrated into a variety of interactive devices. In addition, despite their smaller size, these sensors can capture more varieties of data with high precision.

On the other hand, advances in artificial intelligence, particularly from the subfields of machine learning and deep learning, are helping to make interactions more refined and adapted to the needs of single users or groups of users. Machine learning techniques allow computing devices to learn from and adapt to new data captured via sensors without direct intervention from users. Deep learning techniques enable this automatic learning by absorbing vast amounts of unstructured data, which new sensing technologies capture and feed into these AI-based algorithms.

This Special Issue aims to bring state-of-the-art developments that integrate novel sensing technologies with artificial intelligence for augmenting the interaction between people and interactive devices around them.

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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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