

Special Issue

Advanced Sensor Technology and Human-Computer Interaction

Message from the Guest Editor

This Special Issue on “Advanced Sensor Technology and Human-Computer Interaction” focuses on novel sensing and interfacing technologies that encourage new ways of interaction of humans with computers. Intelligent sensors for HCI incorporate at least some kind of intelligence in perception from users (e.g., speech, gesture, and gaze recognition, among others) and respond accordingly. On the other hand, adaptive HCI uses intelligence in the way it interacts with users by dealing with cognitive and affective levels of user activity (wearable sensors for affective computing, for instance). Moreover, this Special Issue also welcomes proposals based on the use of advanced intelligent sensors for HCI applications based on ambient intelligence and pervasive computing interaction, such as smart environments and/or virtual and augmented reality.

Keywords: intelligent sensors for human-computer interaction (HCI); sensor networks for HCI; body area networks for HCI; wearables for HCI; audio and visual recognition for HCI; pervasive computing in HCI; ambient intelligence in HCI; sensors for affective computing; brain-computer interfaces for HCI

Guest Editor

Prof. Dr. Antonio Fernández-Caballero

Instituto de Investigación en Informática de Albacete, Universidad de Castilla-La Mancha, 02071 Albacete, Spain

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Sensors
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
sensors@mdpi.com

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Message from the Editor-in-Chief

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.

Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro

Dipartimento di Ingegneria Elettrica e dell'Informazione (Department of Electrical and Information Engineering), Politecnico di Bari, Via Edoardo Orabona n. 4, 70125 Bari, Italy

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