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Advanced Sensor Technology and Human-Computer Interaction

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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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



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Special Issue



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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

Message from the Editor-in-Chief

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Sensors Editorial Office
MDPI, St. Alban-Anlage 66
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