

Special Issue

Sensor Data Processing for Social Reasoning and Artificial Empathy in Human-Centred Systems

Message from the Guest Editors

Areas of application for human-centred design vary in a wide spectrum. One of the key prospects in truly human-centred systems, which embed human-to-robot or human-to-agent interaction, whether in physical, digital, or virtual reality environments, is that they will feature higher degrees of understanding of the human cognitive and emotional processes, as well as interaction patterns. This is so that they do empathetic and social reasoning and interact with humans accordingly. The goal of this Special Issue is to gather the results from recent research activities towards the creation of human-centred systems, which may integrate various forms of human-to-agent or human-to-robot interaction and novel interfaces (e.g., brain-computer interfaces). Emphasis will be on real-time processing of multimodal sensor data, human behaviour, cognition, and emotional decoding using advanced predictive models, artificial empathy, and human-centred collaboration design. It is expected to receive papers presenting novel algorithms, system architectures, and emerging applications in this area.

Guest Editors

Dr. Erhan Ekmekcioglu

Institute for Digital Technologies, Loughborough University London,
London E15 2GZ, UK

Dr. Yücel ÇİMTAY

Department of Computer Engineering, TED University, Ziya Gökalp
Caddesi No:48 06420, Kolej Çankaya, Ankara, Turkey

Deadline for manuscript submissions

closed (25 March 2023)



Sensors

an Open Access Journal
by MDPI

Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed



mdpi.com/si/106416

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

[mdpi.com/journal/
sensors](https://mdpi.com/journal/sensors)





Sensors

an Open Access Journal
by MDPI

Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed



[mdpi.com/journal/
sensors](https://mdpi.com/journal/sensors)



About the Journal

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

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, MEDLINE, PMC, Ei Compendex, Inspec, Astrophysics Data System, and other databases.

Journal Rank:

JCR - Q2 (Instruments and Instrumentation) / CiteScore - Q1 (Instrumentation)