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

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)**

### Message from the Guest Editors

Dear Colleagues,

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.



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**Special** Issue



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### **Prof. Dr. Vittorio M. N. Passaro**

Department of Electrical and  
Information Engineering,  
Politecnico di Bari, Via Orabona  
4, 70126 Bari, Italy

## Message from the Editor-in-Chief

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*Sensors* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

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