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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

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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

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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