Special Issue

Sensor-Based Human Activity Recognition

Message from the Guest Editor

Sensor-based human activity recognition (HAR) aims at recognising activities by using and integrating data obtained from various sensors, like wearable, object, and ambient sensors, as well as vision sensors. Sensor-based HAR to recognise such activities can lead to innovative and useful applications in various domains like healthcare, smart home, human-computer interaction, and autonomous driving. However, devising really useful sensor-based HAR systems still needs to solve many problems like the scarcity of large-scale datasets, the treatment of missing or defective sensors, the personalisation and calibration of a system for each user, and so on. This Special Issue is dedicated to collecting the latest research achievements and findings on the following topics:

- System architecture for sensor-based HAR;
- Sensing devices and technologies;
- Knowledge discovery and data mining for sensorbased HAR;
- Personalisation and calibration of a sensor-based HAR system;
- Explainability of a sensor-based HAR system;
- Visualisation and user interface for sensor-based HAR;
- Datasets to benchmark sensor-based HAR systems;
- Real-world applications of sensor-based HAR.

Guest Editor

Dr. Kimiaki Shirahama

Department of Information Systems Design, Doshisha University, 1-3 Tatara Miyakodani, Kyotanabe 610-0394, Kyoto, Japan

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

mdpi.com/journal/ sensors





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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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