

Special Issue

New Frontiers in Sensor-Based Activity Recognition

Message from the Guest Editors

Sensor-based human activity recognition is a basic building block in numerous health-care applications and intelligent systems. In recent years, every smartphone performs activity recognition for its users, which is later used as a service to numerous third-party fitness and other applications. Moreover, there are many wearable devices whose goal is fitness tracking and activity recognition. At the beginning, most of the approaches were using classical machine learning, recognizing a limited set of activities which are contained in a single dataset. As the methods progressed and the computing power increased, the research started tackling an increased number of activities. This shift has also allowed for the application of deep learning methods, especially CNNs and LSTMs.

In this Special Issue, we welcome papers on novel approaches and significant applications of sensor-based human activity recognition. We particularly encourage exploring new directions of research. Examples are unsupervised, semi-supervised, and transfer learning techniques to deal with scarcity of labelled data, unknown activities and personalization of models, and approaches that we have not even thought of.

Guest Editors

Dr. Mitja Luštrek

Jožef Stefan Institute, 1000 Ljubljana, Slovenia

Dr. Hristijan Gjoreski

Faculty of Electrical Engineering and Information Technologies, Ss. Cyril and Methodius University, Skopje, North Macedonia

Deadline for manuscript submissions

closed (31 January 2021)



Sensors

an Open Access Journal
by MDPI

Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed



mdpi.com/si/44094

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