



an Open Access Journal by MDPI

# **Sensors for Human Physical Behaviour Monitoring**

Guest Editors:

#### Prof. Dr. Malcolm Granat

Health and Rehabilitation Sciences, School of Health Sciences, University of Salford, Manchester, England

#### Prof. Dr. Andreas Holtermann

National Research Centre for the Working Environment, Copenhagen, Denmark.

#### Dr. Kate Lyden

Adjunct Faculty Kinesiology Department, University of Massachusetts Amherst, Amherst, MA, USA

Deadline for manuscript submissions:

closed (15 December 2022)

### Message from the Guest Editors

The understanding and quantification of free-living physical behaviours are important not only for determining the relationship between these behaviours and health but also in planning interventions and developing public health messages. Physical behaviour comprises free-living activities whose patterns reflect the response to a range of factors and constraints. These can be external influences (e.g., from vocational or environmental), health-related, or free choice. It is proposed that the type of activities (with their associated movements) and the choice of when these are performed, i.e., their patterns in time, are the building blocks of free-living physical behaviour. Using a range of body-worn and environmental sensors, we can now robustly classify an increasing number of these activities (lying, sitting, standing, walking, car transportation, cycling) etc.).

- physical behaviour
- physical activity
- sedentary behaviour
- free-living
- postural transitions
- accelerometers
- gyroscopes
- barometers
- magnetometer validation
- machine learning









an Open Access Journal by MDPI

### **Editor-in-Chief**

### Message from the 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

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.

## **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)

### **Contact Us**

Sensors Editorial Office MDPI, Grosspeteranlage 5 4052 Basel, Switzerland Tel: +41 61 683 77 34 www.mdpi.com mdpi.com/journal/sensors sensors@mdpi.com X@Sensors\_MDPI