



Wearable Motion Sensors Applied in Older Adults

Guest Editors:

Dr. Michael Schwenk

Network Aging Research,
Heidelberg University,
Bergheimer Straße 20, 69115
Heidelberg, Germany

Dr. Carl-Philipp Jansen

Network Aging Research,
Heidelberg University,
Bergheimer Straße 20, 69115
Heidelberg, Germany

Dr. Katharina Gordt

Network Aging Research,
Heidelberg University,
Bergheimer Straße 20, 69115
Heidelberg, Germany

Deadline for manuscript
submissions:

closed (29 July 2020)

Message from the Guest Editors

Dear Colleagues,

This SI focuses on new approaches in the area of wearable motion sensor technology application in older adults. A wide range of wearable sensors (e.g., accelerometers, gyroscopes, magnetometers, GPS, resistive flex and pressure sensors) are now available, providing raw data to describe the type, quantity, and quality of physical activities, daily participation, and skill acquisition beyond motion analysis laboratories. More research is necessary, however, before end-users, clinicians, and researchers can utilize sensor data for ecologically sound monitoring and outcome assessment. Some example applications of interest for this SI are sensors for assessing gait, balance, and postural transitions, physical activity patterns, life-space mobility, age-related chronic diseases (e.g., dementia, stroke etc.) or syndromes (e.g., frailty), adherence to physical activity and exercise interventions, providing feedback about motor learning and skill (re)acquisition during preventive and rehabilitative interventions, and ecological momentary assessment.

Dr. Michael Schwenk
Dr. Carl-Philipp Jansen
Guest Editors





sensors



an Open Access Journal by MDPI

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

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.

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 (*Chemistry, Analytical*) / 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](#)