

## Special Issue

# Gait Analysis Based on Sensing Technology in Populations at Risk of Falls

### Message from the Guest Editors

Analysis of a person's walking gait can provide many insights into their ability to control their centre of mass smoothly during ambulation. Gait patterns often become irregular or unstable in populations at increased risk of accidental falls, such as older adults or those with neurological conditions, due to declining sensory and motor function. Therefore, accurate assessment of gait stability and symmetry is important in both clinical and research settings that are focused on fall risk assessment and fall prevention. With the rate of development of gait analysis technologies, it is not always clear to clinicians and researchers which technologies will provide the most relevant and accurate gait information. Accuracy and repeatability are of utmost importance in clinical and research applications, particularly where the risk of falls is being assessed or the effectiveness of interventions for preventing falls is being evaluated. Therefore, it is the aim of this Special Issue to draw together the latest literature applying gait analysis technologies in populations at increased risk of falls.

---

### Guest Editors

Dr. Sheree Hurn

Dr. Anna Hatton

Dr. Wolbert Van den Hoorn

---

### Deadline for manuscript submissions

closed (10 August 2024)



## Sensors

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.5  
CiteScore 9.4  
Indexed in PubMed



[mdpi.com/si/151437](https://mdpi.com/si/151437)

*Sensors*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[sensors@mdpi.com](mailto:sensors@mdpi.com)

[mdpi.com/journal/  
sensors](https://mdpi.com/journal/sensors)





# Sensors

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.5  
CiteScore 9.4  
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)