

Special Issue

Emerging Technologies for Gait Analysis and Improvement: Sports and Clinical Applications

Message from the Guest Editors

Recently, technological advances have fostered the development of wearable, easy-to-install, and non-intrusive technologies that offer exciting possibilities for gait assessment and improvement. The objective of this special issue is to present recent results regarding the development and application of these emerging technologies in clinical and sports settings. In particular, this Special Issue will report on various sensors for gait analysis, such as inertial measurement units, plantar pressure measurement systems, and video-based markerless technologies. In addition, this Special Issue will also cover wearable technologies for gait rehabilitation and augmentation (exoskeletons, peripheral neuromodulation systems, etc.). Authors are encouraged to submit manuscripts for publication in the following areas (but not limited to):

- Development and application of novel technologies for gait assessment;
- Wearable systems for gait training and augmentation;
- Gait assistive technologies;
- Innovative tools for gait analysis in sports;
- Validation of video-based markerless technologies for gait analysis;
- Tools and methods for continuous gait measurement in free-living conditions.

Guest Editors

Dr. Teddy Caderby

Prof. Dr. Nicolas Peyrot

Dr. Jean Slawinski

Dr. Eric Yiou

Deadline for manuscript submissions

closed (30 June 2025)



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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

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