Special Issue

Advanced Wearable Sensors for Human Gait Analysis

Message from the Guest Editors

The rapid development of wearable sensors has revolutionized how we monitor and analyze human movement, particularly in the field of gait analysis. The integration of wearable sensor technologies offers the potential for real-time, personalized, and unobtrusive monitoring of gait, providing valuable insights into both healthy and pathological movement patterns.

This Special Issue seeks to highlight the latest research, innovations, and applications in the field of wearable sensors for human gait analysis. We invite original research articles, reviews, and case studies that explore the development, application, and impact of wearable technologies for capturing and analyzing human gait.

We are particularly interested in contributions that address the following areas:
- Advancements in wearable sensor technologies;
- Data processing and machine learning approaches;
- Clinical applications and rehabilitation;
- Wearable sensors in sports and performance optimization;
- Real-time feedback systems for users during training and recovery;
- User-centric design and implementation challenges.

Guest Editors

Dr. Tong Li
College of Education, Zhejiang University, Hangzhou, China

Prof. Dr. Qingguo Li
Department of Mechanical and Materials Engineering, Queen's University, Kingston, ON K7L 3N6, Canada

Dr. Bingfei Fan
College of Mechanical Engineering, Zhejiang University of Technology, Hangzhou 310014, China

Deadline for manuscript submissions

30 June 2026

About the Journal

Message from the Editor-in-Chief

You are invited to contribute a research article or a comprehensive review for consideration and publication in *Bioengineering* (ISSN 2306-5354). *Bioengineering* is published in open access format – research articles, reviews and other contents are released on the Internet immediately after acceptance. The scientific community and the general public have unlimited and free access to the content as soon as it is published. *Bioengineering* provides an advanced forum for the science and technology of bioengineering. We would be pleased to welcome you as one of our authors.

Editor-in-Chief

Prof. Dr. Anthony Guiseppi-Elie
Department of Biomedical Engineering, Texas A&M University, College Station, TX 77843, USA

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, CAPlus / SciFinder, Inspec, and other databases.

Journal Rank:

JCR - Q2 (Engineering, Biomedical) Rapid Publication: manuscripts are peer-reviewed and a first decision is provided to authors approximately 19.2 days after submission; acceptance to publication is undertaken in 3.3 days (median values for papers published in this journal in the first half of 2025).

Recognition of Reviewers:

reviewers who provide timely, thorough peer-review reports receive vouchers entitling them to a discount on the APC of their next publication in any MDPI journal, in appreciation of the work done.