

## Special Issue

# Advances in Wearable Inertial and EMG Sensors for Movement Quality Analysis in Sports Science and Rehabilitation

### Message from the Guest Editors

This Special Issue invites contributions that explore the use of wearable IMU technology—alone or integrated with EMG—for improving movement quality and health outcomes. We aim to cover a wide range of potential topics, including, but not limited to, the following:

- Motion control and biofeedback in sports performance.
- Wearable sensor applications in injury prevention and rehabilitation.
- Biofeedback systems for managing lower back pain and other spinal or musculoskeletal disorders.
- Innovations in sensor technology and integrative approaches combining IMUs and EMG for comprehensive motion analysis.
- IMU-based interventions to enhance quality of life in different populations.
- wearable sensors
- inertial measurement units (IMUs)
- electromyography (EMG)
- motion analysis
- biofeedback
- rehabilitation
- injury prevention
- sports science
- spinal health

### Guest Editors

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### Deadline for manuscript submissions

31 December 2025



## Sensors

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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.

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