

## Special Issue

# Wearable Sensors for Biomechanical Monitoring in Sport

### Message from the Guest Editors

Sports biomechanics is the application of the principles of biomechanics to the study of human movement in sports and exercise to quantitatively evaluate performance and reduce injury. With advancements in technology, wearable sensors now offer the opportunity to measure the biomechanics of human movement in sports and athletic environments while maintaining the technical movements of athletes. The kinematics, kinetics, and muscle activity of human movement can all be determined with the instrumentation of wearable sensors, which can be applied to sports biomechanics in order to improve performance and minimize the risk of injury. This Special Issue aims to highlight the most recent research regarding the use of wearable sensors and their applications in sports biomechanics to quantitatively measure human movements. The scope of this Special Issue includes, but is not limited to, the following topics:

- Sports biomechanics
- Human movement analysis
- Wearable sensors
- Inertial measurement unit
- Accelerometer
- Gyroscope
- Electromyography

---

### Guest Editors

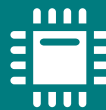
Prof. Dr. Darren Stefanyshyn  
University of Calgary, Calgary, AB, Canada

Dr. Christian Clermont  
Faculty of Kinesiology, University of Calgary, Calgary, AB T2N 1N4,  
Canada

---

### Deadline for manuscript submissions

closed (31 January 2022)



## Sensors

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.5  
CiteScore 8.2  
Indexed in PubMed

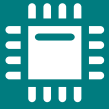


[mdpi.com/si/58111](https://mdpi.com/si/58111)

*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 8.2  
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

Dipartimento di Ingegneria Elettrica e dell'Informazione (Department of Electrical and Information Engineering), Politecnico di Bari, Via Edoardo Orabona n. 4, 70125 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)