

## Special Issue

# Sensors for Exercise and Sport Activities: From Health Promotion to Sports Performance

### Message from the Guest Editors

Measurement of movement, physical activity, and fitness levels provide valuable information to predict a person's health, physical function, and risk of different musculoskeletal and metabolic diseases, such as low back pain, osteoarthritis, shoulder joint problem, diabetes, cardiovascular disease, and even cancer risk. Furthermore, these types of information also provide postural, kinematic, and biomechanical information during sport activity. On the other hand, the advances in artificial intelligence and machine learning provide new ways to interact and gain insights into the captured data, which enable analyzing, segmenting, classifying, and recognizing human posture/movement and cardiopulmonary response to exercise and physical and sport activities. This Special Issue will cover a wide range of topics around exercise and physical and sport activities, including new sensor technologies to capture movement, musculoskeletal/cardiopulmonary response to exercise/physical and sport activities, the application prospect of sensors in exercise and sport activities, and new algorithmic approaches to derive, analyze, and recognize exercise and physical activity sensor data.

---

### Guest Editors

Prof. Dr. Justin Jeon

Department of Sport Industry Studies, Yonsei University, Seoul 03722, Korea

Dr. Seonug Jae Yoo

Advanced Sensor Development Team, Samsung Electronics

---

### Deadline for manuscript submissions

closed (20 December 2020)



## Sensors

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.0  
CiteScore 9.4  
Indexed in PubMed



[mdpi.com/si/38186](https://mdpi.com/si/38186)

*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 4.0  
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)