

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.

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Deadline for manuscript submissions

closed (20 December 2020)



Sensors

an Open Access Journal
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Impact Factor 3.5
CiteScore 9.4
Indexed in PubMed



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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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