Special Issue

Sensors and Wearable Technologies in Sport Biomechanics—Second Edition

Message from the Guest Editors

Sport biomechanics is a subfield of biomechanics that studies mechanics to improve performance and reduce injury during exercise and physical activities in abled-bodied people and people with disabilities. Traditionally, sport biomechanics research has been conducted in laboratory settings that limit the generalization of research findings to real-life field competitions. Recent advancements on sensors and wearable technologies have provided new opportunities to examine the field performance and provide real-time feedback for athletes. These sensors and wearable technologies include physiological (e.g., heart rate), neurological (e.g., brain waves), biochemical (e.g., metabolites) and biomechanical (e.g., force) sensors.

Although these sensors and wearable technologies have demonstrated the promise to improve sport performance and reduce injury in sport biomechanics, these novel sensors have not been widely applied to study various sport activities. This aim of this Special Issue is to highlight these novel sensors and wearable technologies and their applications in sport biomechanics as well as machine learning-based analyses of real-time, continuous wearable sensor data.

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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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