Special Issue

Sensors and Wearable Technologies in Sport Biomechanics

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 limits the generalization of research findings to real-life field competitions.

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 (e.g., speed skating, football and marathon). Many novel wearable sensors for assessing cardiovascular and metabolic process have not been used to benefit athletes. Furthermore, data collected from these wearable sensors have not been fully analyzed. 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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