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Artificial Intelligence (AI) and Sensors in Sports Safety and NextGen Rehabilitation

Guest Editors:

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Cuesta Vargas**

Deadline for manuscript
submissions:

30 November 2024

Message from the Guest Editors

Dear Colleagues,

Sensors, sensing networks, artificial intelligence, and other new and advanced technologies determine the constant and quick changes of sport performances. Sensors and AI-based models predict and prevent injuries by providing real-time data that can be used to control fatigue, identify injury risks, track recovery progress, and change training programs to reduce the risk of injury. For this Special Issue, we are looking for articles on monitoring of workload, detection of movement patterns and irregularities, methods of identifying muscle imbalances, approaches to keeping track of the recovery phase, use of next-generation physiotherapy methods, models, and sensors, and concussions from wearable sensors or remote solutions.

Potential topics include but are not limited to:

- predictive modeling
- injury diagnosis
- fatigue management
- biomechanical sensors
- virtual rehabilitation
- wearable sensors
- radar sensors
- concussion detection
- smart insoles
- EMG sensors
- movement sensors



mdpi.com/si/164923

Special Issue



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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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Journal Rank: JCR - Q2 (*Instruments & Instrumentation*) / CiteScore - Q1 (*Instrumentation*)

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