Special Issue

Micro-Electro-Mechanical Systems (MEMS) and Wearables for Sports Performance Analysis and Injury Prevention

Message from the Guest Editors

In recent years, and with the advancement of wearable sensor technologies in the field of external monitoring training loads, clubs and sports scientists have become interested in achieving an appropriate level of training load indices for athletes in various team sports to minimize load-induced injuries. This challenge is particularly important for sports clubs in managing the fatigue and recovery of athletes with the prevention of NFOR, OTS, and possible injuries, which can increase the team success rate and reduce team costs. Hence, the purpose of this Special Issue is to present the findings of recent research on new approaches to the use of micro-electromechanical systems to prevent injury to team sports athletes. Specifically, the Special Issue will report on the use of micro-electromechanical systems (e.g., global positioning system, location position system, inertial measurement unit) and the relationship with team sports athlete injuries. A team sport setting presents peculiar aspects (e.g., athletes with different physical features and abilities, need for keeping together individual with overall team physical conditioning) deserving specific assessment interventions.

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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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