

Special Issue

Evaluation and Implementation of Inertial Technologies in the Analysis of Sports Performance and Physical Activity

Message from the Guest Editors

This Special Issue aims to explore the use of inertial devices in sports and physical activity, focusing on their application in movement analysis, training load monitoring, and injury prevention. Specific topics of interest include the following:

1. Validation of inertial devices for measuring biomechanical and performance-related parameters.
2. Applications in specific sports such as football, basketball, cycling, and endurance disciplines.
3. Technological innovations in inertial sensors and their integration with other monitoring platforms.
4. Studies on training load and real-time monitoring using inertial devices.
5. Injury prevention through monitoring of movement patterns and fatigue with inertial sensors.
6. Case studies demonstrating the implementation of inertial devices in real-world training or competition settings.

We are also interested in articles addressing methodological challenges in the use of inertial devices, the accuracy of collected data, and the current limitations of the technology—along with proposals for improvement and future applications.

Guest Editors

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About the Journal

Message from the Editor-in-Chief

Sports (ISSN 2075-4663) is a peer-reviewed scientific journal that publishes original articles, critical reviews, research notes and short communications in the interdisciplinary area of sport sciences and public health. It links several scientific disciplines in an integrated fashion, to address critical issues related to sport science and public health. The journal presents diverse original articles, including systematic and narrative reviews, cohort and case control studies, innovative randomized trials, and formative research using qualitative and quantitative methods with the aim to provide information for researchers to plan intervention programs. It addresses diverse public health, physical activity and exercise science topics.

Editor-in-Chief

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Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 18.7 days after submission; acceptance to publication is undertaken in 3.7 days (median values for papers published in this journal in the first half of 2025).