Special Issue

Advances in Sport and Exercise Biomechanics

Message from the Guest Editors

In recent years, the field of sport and exercise biomechanics has experienced significant advancements, driven by cutting-edge technology and innovative research methodologies. Advanced motion capture systems, wearable sensors, and sophisticated modeling software have revolutionized our ability to analyze and interpret human movement with unprecedented precision. These tools have facilitated deeper insight into the intricacies of movement patterns, muscle activation, and force generation. Moreover, the application of advanced computational models and machine learning algorithms provides deeper insights into complex biomechanical phenomena. By simulating various scenarios and predicting outcomes, these models assist in understanding technique execution and interactions with equipment and the environment. The featured studies highlight the transformative impact of these advancements, showcasing how contemporary biomechanics research is enhancing our understanding of human movement and contributing to the fields of sports science, physical therapy, and health and exercise promotion.

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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