

## Special Issue

# Applied Biomechanics and Sports Sciences

### Message from the Guest Editors

This Special Issue seeks to advance understanding of biomechanics' significance in high and elite athletes' daily routines. We welcome robust experimental, numerical modelling and simulation hardware development, as well as some solid conceptual studies on future research avenues. All original research on classic sports' biomechanics and its interaction with physiology (e.g., electromiography, motor unit potential and lactate), as well as engineering (e.g., real-time location devices, real-time blood analysis and microneedle arrays) will be considered. Any other manuscripts not enumerated above but that are innovative and relevant to sport biomechanics will also be considered. Therefore, the aim of this Special Issue is to present the latest developments in applied biomechanics research within sports sciences, with a particular emphasis on elite sports. This includes exploration of exercise performance principles, performance optimization strategies, innovative injury prevention methods and emerging equipment technologies.

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### Guest Editors

Dr. Filipe Conceição  
Dr. Ricardo J. Fernandes  
Dr. Pedro Jimenez-Reyes

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### Deadline for manuscript submissions

closed (20 June 2025)



## Applied Sciences

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## About the Journal

### 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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### Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo  
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