Special Issue

Advances in the Biomechanical Analysis of Human Movement

Message from the Guest Editors

This Special Issue is devoted to celebrating recent advances in biomechanics, specifically innovative approaches for the observation, analysis and evaluation of human movement. We cordially invite contributions that encompass a broad range of biomechanical applications including advanced and innovative techniques for assessing clinical movement; characterising mobility deficits; optimising musculoskeletal function through intervention and rehabilitation; injury prevention; athletic performance; and sporting applications. Novel approaches to the acquisition of biomechanical data (i.e., markerless motion capture, multi-modal/multi-sensor techniques, approaches to handling big data, real-world and remote monitoring applications) are welcome. In particular, bespoke techniques for enhanced data analytics (i.e., non-linear, linear, machine learning, artificial intelligence) and nuanced interpretation (i.e., multi-segment or multi-system co-ordination, interrogation of multimodal and multivariate datasets) are encouraged.

Guest Editors

Dr. Javad Sarvestan

Translational and Clinical Research Institute, Faculty of Medical Sciences, Newcastle University, Newcastle upon Tyne NE4 5TG, UK

Dr. Lisa Alcock

Translational and Clinical Research Institute, Faculty of Medical Sciences, Newcastle University, Newcastle upon Tyne NE4 5TG, UK

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Applied Sciences
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
applsci@mdpi.com

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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.

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32, 20133 Milano, Italy

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