

## Special Issue

# Recent Advance in Finite Elements and Biomechanics

### Message from the Guest Editor

In recent years, the field of finite elements and biomechanics have seen several developments in different subjects, such as the development of new constitutive models, able to capture and characterize the most complex behaviors, new finite element technologies, with improved behavior, and also the development of new modeling techniques such as multiscale modeling applied to biomechanics. New trends are also emerging with the coupling of the finite element method (FEM) and machine learning/deep learning algorithms, which allow us to obtain new insights from existing data. New materials are also being developed, with the aid of FEM, from scaffolds to functionally graded materials to be used in medical interventions. The topic of finite elements and biomechanics is a tremendous field of research, with a potential to impact the life quality of many people. The aim of this Special Issue is to attract world-leading researchers in these areas of research in an effort to highlight the latest exciting developments.

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### Guest Editor

Dr. Marco Parente

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### Deadline for manuscript submissions

closed (10 April 2023)



## 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

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