

Special Issue

Symmetry Applied in Biomechanics and Mechanical Engineering

Message from the Guest Editors

Symmetry is one of the most important aspects of modern biomechanics, mechanical engineering, and other scientific areas. It is widely used to reduce the numerical complexity of models, to help understand biological phenomena, and to accelerate computational algorithms. Despite the recent growth rate in computational power, symmetry is still the key issue of doing complex problems solvable using currently available technologies. This is especially reliable and reasonable in computationally intensive tasks, such as parameters estimation and topological optimization. Symmetry can be both the main focus of the study, as well as an auxiliary method. This special issue covers a wide range of topics including, but not limited to, the ones mentioned in the previous paragraph and the keyword section presented below. Our main goal is to report on novel applications of symmetry in biomedical and mechanical engineering.

Guest Editors

Prof. Dr. Jerzy Malachowski

Dr. Adam Ciszewicz

Prof. Dr. Grzegorz Milewski

Deadline for manuscript submissions

closed (30 June 2022)



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About the Journal

Message from the Editor-in-Chief

Symmetry is ultimately the most important concept in natural sciences. It is not surprising then that very basic and fundamental research achievements are related to symmetry. For instance, the Nobel Prize in Physics 1979 (Glashow, Salam, Weinberg) was received for a unified symmetry description of electromagnetic and weak interactions, while the Nobel Prize in Physics 2008 (Nambu, Kobayashi, Maskawa) was received for the discovery of the mechanism of spontaneous breaking of symmetry, including CP symmetry. Our journal is named *Symmetry* and it manifests its fundamental role in nature.

Editor-in-Chief

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