

Special Issue

Recent Advances in Mechanical and Biomedical Mechanical Engineering

Message from the Guest Editor

Symmetries in real engineering systems can be used to facilitate their analysis or may be exploited in their design. Similarly, asymmetries can also be purposely exploited to achieve certain outcomes. Simple symmetries often give insight into complex systems. Mechanical and biomedical mechanical engineering systems are those of solid and fluid mechanics, materials, thermodynamics, dynamics and controls, as well as the many applications of these disciplines. There are many theories, applications and analyses of mechanical engineering systems that deliberately make use of symmetry. This Special Issue invites researchers to submit original research papers related to mechanical or biomedical mechanical engineering in which theoretical or practical issues of symmetry are considered.

Guest Editor

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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.

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