

Symmetry in Applied Continuous Mechanics

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Deadline for manuscript
submissions:

closed (15 September 2019)

Message from the Guest Editors

Dear Colleagues,

Engineering practice requires the use of structures containing identical components or parts, useful from several points of view: less information is needed to describe the system, design is made quicker and easier, components are made faster than a complex assembly, and finally the time to achieve the structure and the cost of manufacturing decreases. Also, the subsequent maintenance of the system becomes easier and cheaper.

This Special Issue is dedicated to this kind of mechanical structure, describing the properties and methods of analysis of these structures. Discrete or continuous structures in static and dynamic cases are considered.

Theoretical models, mathematical methods, numerical analysis of the systems, such as the finite element method and experimental methods are expected to be used in the researches. Machine building, automotive, aerospace and civil engineering are the main areas in which such applications appear, but they are found in most engineering fields.





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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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