Special Issue

Symmetry in Smart Materials and Structures

Message from the Guest Editor

Smart materials and structures possess the unique ability to actively respond to environmental stimuli by altering their physical properties. Compared to conventional materials and structures, smart materials and structures move from passive to active systems and realize multifunctionality more easily. Therefore, they may provide solutions that traditional technologies cannot solve in terms of safety, reliability, efficiency, adaptability, and maintainability. This Special Issue aims to provide a multi-disciplinary platform for the latest developments in various aspects of smart materials and structures, including their properties, mechanics-based designs, modelling methods, simulations, correlations with symmetry/asymmetry, applications, challenges, and future prospects. In particular, this Special Issue intends to showcase studies that explore methodologies for solving problems occurring in the real-world applications of smart materials and structures, discovering the correlations between theoretical/experimental studies and symmetry. Researchers are invited to contribute original research articles, review articles, and short communications related to the above topics.

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.

Editor-in-Chief

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