Special Issue

Symmetry/Asymmetry in Micro/Nano-Electromechanical Systems

Message from the Guest Editors

Symmetry and asymmetry are crucial factors that affect the performance of micro/nano-electromechanical systems (MEMSs/NEMSs). As ideal materials for resonator-based MEMSs/NEMSs, the symmetric/asymmetric properties of low-dimensional nanostructures should be discussed. Nonlinear dynamical systems are the essence of resonator-based MEMSs/NEMSs. Data-driven and machine learning methods are powerful tools that can be used to analyze the long-term behavior of nonlinear dynamical systems. Therefore, the symmetry and asymmetry in data-driven and machine learning methods for nonlinear dynamical systems should be considered. This Special Issue aims to cover symmetry and asymmetry in MEMSs/NEMSs.

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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.

Editor-in-Chief

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