

Special Issue

Nonlinear Dynamics: Symmetry or Asymmetry Nonlinear Dynamical Systems

Message from the Guest Editors

In recent years, there has been a large demand for nonlinear dynamic investigations driven by both mechanical design and fault diagnosis in the field of vibration systems since the structure design and operation situation of vibration systems tend to be more extreme. This Special Issue focuses on the landmarks attained in this endeavor. As we all know, symmetry or asymmetry structures affect the nonlinear behaviors of nonlinear systems hugely. Thus, we invite specialists in nonlinear system dynamics, not only mechanical systems but also other kinds, like economic systems, biological systems, etc., as well as interdisciplinary cooperation, to report their findings and discuss possibilities of integrating the information obtained into different nonlinear systems. We especially welcome submissions which aim to formulate new concepts, new approaches, and new solutions that might be applied to practical engineering systems. The goal of this Special Issue, entitled “Nonlinear Dynamics: Symmetry or Asymmetry Nonlinear Dynamical Systems”, is to report on the latest advances on all these related topics...

Guest Editors

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Deadline for manuscript submissions

closed (31 December 2024)



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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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