

Special Issue

Symmetry in Nonlinear Dynamics

Message from the Guest Editors

Nonlinear dynamical phenomena are prevalent in mechanical, civil, aerospace, and other engineering fields, giving rise to complex and intriguing dynamic occurrences, such as bifurcation, chaos, and super-/sub-harmonic resonances. While engineering nonlinear dynamics may lead to unfavorable consequences, they can also occasionally bring about beneficial effects that linear dynamical systems can never achieve. Additionally, there are many symmetry, mathematics theory, and algorithm issues in nonlinear dynamics. Thus, there is a pressing need for extensive research to be carried out regarding symmetry in nonlinear dynamical problems.

Guest Editors

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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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