

Special Issue

Symmetry and Asymmetry Studies in Nonlinear Dynamics

Message from the Guest Editors

Symmetry and asymmetry are essential features in nonlinear dynamical systems, shaping stability, bifurcations, and emergent behaviors across scientific and socio-technical domains. This Special Issue invites contributions that explore the theoretical, computational, and applied aspects of symmetry and asymmetry in nonlinear systems. Topics include multi-fractal analysis, symmetry-breaking mechanisms, agent-based modeling, networked systems with structural imbalances, and machine learning approaches for nonlinear pattern recognition and early warning. Interdisciplinary studies, ranging from energy and transportation systems to economic and environmental modeling, are welcome. We aim to foster new insights that bridge fundamental theory with real-world complexity, resilience, and sustainable system design.

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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.

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