Special Issue

Symmetry in Chaos Theory and Applications

Message from the Guest Editors

Symmetry plays a fundamental role in the modeling and analysis of chaotic and nonlinear systems. This Special Issue invites original research studies that explore how symmetry or asymmetry influences the dynamics, control, and applications of chaos in various systems, including memristor, multistability, and fractal and fractional-order models. Topics of interest include, but are not limited to, the following:

- Symmetry in nonlinear and chaotic systems;
- Memristor-based chaotic circuits and networks;
- Multistability and coexisting attractors;
- Fractal and fractional-order chaotic systems;
- Chaos-based encryption and secure communication;
- Symmetry breaking and bifurcation analysis;
- Control and synchronization of symmetric chaos;
- Applications in signal processing and computation.

We welcome contributions from professionals in fields of mathematics, physics, computer science, and engineering.

Guest Editors

Dr. Xiangliang Xu

Dr. Guodong Li

Prof. Dr. Tianxian Zhang

Deadline for manuscript submissions

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Symmetry
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
symmetry@mdpi.com

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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

Prof. Dr. Sergei Odintsov
1. ICREA, 08010 Barcelona, Spain
2. Institute of Space Sciences (IEEC-CSIC), C. Can Magrans s/n, 08193 Barcelona, Spain

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