

Special Issue

Mathematical Theories, Models and Methods in Applied Sciences: Deterministic, Stochastic and Symmetry Perspectives, 2nd Edition

Message from the Guest Editors

This Special Issue explores advanced mathematical theories, models, and methods for solving complex problems in applied sciences, integrating deterministic, stochastic, and symmetry perspectives. It highlights innovative approaches to differential equations, optimization, and statistical modeling, with applications in physics, engineering, biology, and data science.

Contributions may cover the following topics:

- Deterministic frameworks (e.g., nonlinear dynamics, numerical analysis);
- Stochastic techniques (e.g., random processes, uncertainty quantification);
- Symmetry-based methods (e.g., group theory, invariant solutions).

Guest Editors

Dr. Renhai Wang

Prof. Dr. Wei Gong

Dr. Pengyu Chen

Deadline for manuscript submissions

31 December 2025



Symmetry

an Open Access Journal
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Impact Factor 2.2
CiteScore 5.3



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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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