



Symmetry in Mathematical Theory and Simulation Methods for Backward Problems

Guest Editor:

Dr. Chih-Wen Chang

Department of Mechanical
Engineering, National United
University, Miaoli 36063, Taiwan

Deadline for manuscript
submissions:

31 July 2024

Message from the Guest Editor

Dear Colleagues,

Backward problems have been investigated in science, mathematics, and engineering, and reveal an unknown property of an object from their experimentation or observation. Backward problems conform to the *Symmetry* journal's ideology as they are the opposite of the associated forward issue, which concerns the cause–effect relationship.

Backward problems have a wide range of applications, including mechanics, heat conduction, acoustics, semiconductors, medical imaging, nondestructive testing, physics, systems biology, finance, robotics, computer vision, radar, thermoelastics, and groundwater.

This Special Issue of *Symmetry* concentrates on the present mathematical theory and simulation regarding backward problems and how they relate to their applications in engineering and science.

Dr. Chih-Wen Chang
Guest Editor





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Sergei D. Odintsov

1. Institució Catalana de Recerca
i Estudis Avançats (ICREA),
Passeig Luis Companys, 23,
08010 Barcelona, Spain
2. Institute of Space Sciences
(ICE-CSIC), C. Can Magrans s/n,
08193 Barcelona, Spain

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), CAPlus / SciFinder, Inspec, Astrophysics Data System, and other databases.

Journal Rank: JCR - Q2 (*Multidisciplinary Sciences*) / CiteScore - Q1 (General Mathematics)

Contact Us

Symmetry Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/symmetry
symmetry@mdpi.com
X@Symmetry_MDPI