Special Issue

Symmetry/Asymmetry in Intelligent Transportation

Message from the Guest Editors

This Special Issue investigates the complex interaction of symmetry and asymmetry in Intelligent Transportation Systems (ITSs). It discusses the complex dynamics of ITSs, covering the comprehensive integration of traffic flow, dispatching, road conditions and vehicle–road interactions. We are committed to ensuring road safety and improving traffic management through careful understanding of the symmetry and asymmetry in these systems. Our focus is on the key elements of ITSs: road detection, pavement performance prediction and maintenance, traffic flow analysis and traffic accident analysis. By analyzing the complex interaction between symmetric and asymmetric forces in intelligent transportation systems, we can formulate strategies to strengthen traffic management and safety. These strategies can also accurately predict pavement performance, optimize maintenance plans and help the industry adapt to the changing needs of traffic systems. We encourage the submission of in-depth research on these topics that provides opinions regarding their impact on the practical application of traffic engineering.

Guest Editors

Dr. Lili Pei

School of Data Science and Artificial Intelligence, Chang'an University, Xi'an 710064, China

Prof. Dr. Wei Li

School of Data Science and Artificial Intelligence, Chang'an University, Xi'an 710064, China

Deadline for manuscript submissions

28 February 2026

Symmetry

an Open Access Journal by MDPI

Impact Factor 2.2
CiteScore 5.3

mdpi.com/si/228065

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

mdpi.com/journal/symmetry

Symmetry

an Open Access Journal by MDPI

Impact Factor 2.2
CiteScore 5.3

mdpi.com/journal/symmetry

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

Author Benefits

Open Access:

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

High Visibility:

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

Journal Rank:

JCR - Q2 (Multidisciplinary Sciences) / CiteScore - Q1 (General Mathematics)

MDPI