

Special Issue

Topological Indices and Symmetry in Complex Networks II

Message from the Guest Editors

Topological graph indices, are numerical parameters of a graph that are invariant under graph isomorphisms. They play a significant role in chemistry, pharmacology, and physics, especially in the quantitative structure–property relationship (QSPR) and the quantitative structure–activity relationship (QSAR) investigations. Symmetry is a universe phenomenon in complex systems and applies the conservation laws of nature. Many real networks have been found to have a rich degree of symmetry, which is a universal structural property of complex networks, yet have rarely been studied so far. Symmetry finds numerous applications in transportation, in communication network design, in production and inventory planning, in facility location and allocation, and in VLSI design. Many topological graph indices are metric indices for networks, which have extensive applications.

Guest Editors

Prof. Dr. Guifu Su

School of Mathematics and Physics, Beijing University of Chemical Technology, Beijing 100029, China

Dr. Junfeng Du

School of Mathematics and Physics, Beijing University of Chemical Technology, Beijing, China

Deadline for manuscript submissions

closed (31 December 2024)



Symmetry

an Open Access Journal
by MDPI

Impact Factor 2.2
CiteScore 5.3



mdpi.com/si/166622

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

[mdpi.com/journal/
symmetry](https://mdpi.com/journal/symmetry)





Symmetry

an Open Access Journal
by MDPI

Impact Factor 2.2
CiteScore 5.3



[mdpi.com/journal/
symmetry](https://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
ICREA, 08010 Barcelona and 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)