

Special Issue

Symmetry and Asymmetry in Network Control

Message from the Guest Editors

Symmetry is a foundational concept in numerous fields, e.g., mathematics and physics. Coinciding with the rapid advancement of network control theory and artificial intelligence techniques, in recent years, researchers have increasingly applied symmetry theory to network control and artificial neural networks. Such applications and research, including pattern recognition and data understanding, demonstrate that symmetry and asymmetry structure substantially improve the performance of modern network control and neural networks, showcasing impressive results. Therefore, this Special Issue aims to provide a platform for presenting and discussing recent advancements in symmetrical and asymmetrical network control and their applications. We are pleased to invite you to participate in this Special Issue to progress research regarding symmetry and asymmetry theory and methods. This Special Issue covers pure research and applications within novel scopes related to symmetrical and asymmetrical network control...

Guest Editors

Dr. Yadong Xu

Department of Industrial & Systems Engineering, The Hong Kong Polytechnic University, Hong Kong, China

Dr. Sheng Li

School of Business, Hohai University, Nanjing 211100, China

Dr. Qidi Fu

School of Mechanical Engineering, Southeast University, Nanjing 211189, China

Deadline for manuscript submissions

closed (30 April 2025)



Symmetry

an Open Access Journal
by MDPI

Impact Factor 2.2
CiteScore 5.2



mdpi.com/si/199750

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 5.2



[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)