



*symmetry*



an Open Access Journal by MDPI

## Applications Based on Symmetry/Asymmetry in Data Mining

Guest Editors:

**Dr. Jiawei Zhu**

School of Architecture and Art,  
Central South University,  
Changsha 410083, China

**Prof. Dr. Dongpo Xu**

School of Mathematics and  
Statistics, Northeast Normal  
University, Changchun 130024,  
China

Deadline for manuscript  
submissions:

**1 November 2024**

### Message from the Guest Editors

Dear Colleagues,

In recent years, the burgeoning field of data mining has witnessed remarkable advancements. Symmetry and asymmetry are fundamental concepts influencing various aspects of data mining, including pattern recognition, anomaly detection, and classification. As data mining techniques continue to evolve, understanding the role of symmetry and asymmetry becomes increasingly important for advancing the field.

This Special Issue aims to delve into the role of symmetry and asymmetry within data mining applications across various domains. We welcome submissions that address recent advancements, methodologies, and practical applications leveraging symmetry and asymmetry in data mining processes. Potential topics of interest include but are not limited to novel data mining algorithms incorporating symmetry/asymmetry principles; innovative feature engineering techniques guided by symmetry/asymmetry considerations; cutting-edge data analysis methodologies leveraging symmetry/asymmetry insights; and case studies illustrating the practical implications of symmetry/asymmetry in data mining applications.



[mdpi.com/si/201303](https://mdpi.com/si/201303)

# Special Issue



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*); Q1 (*Physics and Astronomy*); Q1 (*Computer Science*)

## 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