# Special Issue

## Symmetry/Asymmetry and Artificial Intelligence: Models, Methods, and Applications

### Message from the Guest Editors

This Special Issue, "Symmetry/Asymmetry and Artificial Intelligence: Models, Methods, and Applications", invites high-quality contributions exploring the interplay between symmetry principles and artificial intelligence. Symmetry and asymmetry are fundamental concepts that underpin many aspects of data representation, model design, and computational efficiency. In artificial intelligence, they emerge naturally in machine learning, deep learning, graph theory, and intelligent systems, where exploiting symmetry can reduce complexity, enhance generalization, and improve interpretability, while asymmetry often drives adaptability, robustness, and novel learning strategies. The aim of this Special Issue is to bring together theoretical developments, methodological innovations, and real-world applications that reveal how symmetry and asymmetry shape intelligent models and algorithms. We encourage submissions addressing new frameworks, optimization strategies, and domain-specific applications where symmetry or asymmetry plays a critical role. Both fundamental research and applied studies across diverse areas of AI are welcome.

### Guest Editors

Prof. Dr. Soumia Ziti

Prof. Dr. Nassim Kharmoum

Dr. Al Idrissi Najib

### Deadline for manuscript submissions

31 July 2026

# Symmetry

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# 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

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