

## Special Issue

# Symmetry in Artificial Intelligence and Applications

### Message from the Guest Editors

Artificial intelligence (AI) continues to transform science, industry, and society, and many recent advances reveal underlying regularities and balanced structures that can be viewed through the lens of symmetry. Recognizing and exploiting these patterns helps researchers to design models with higher efficiency, stronger generalization, and more interpretable features. This Special Issue invites original research and comprehensive reviews that examine the role of symmetry and related principles in AI theory, algorithm design, and practical deployment. Topics of interest include—but are not limited to—model simplification, pattern discovery, feature prioritization, and performance optimization across applications such as computer vision, speech processing, natural language understanding, robotics, and intelligent sensing. We particularly welcome interdisciplinary submissions that connect mathematical insights with real-world implementations.

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### Guest Editors

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### Deadline for manuscript submissions

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## 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.

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### Editor-in-Chief

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