

Special Issue

Symmetry in Applied Computational Intelligence and Informatics

Message from the Guest Editors

This Special Issue explores advances in machine learning (ML) and artificial intelligence (AI), combining methodological innovation with real-world applications. We seek contributions presenting novel algorithms, explainable and trustworthy AI approaches, and hybrid or ensemble models, alongside application-driven studies in healthcare, environmental monitoring and sustainability, smart cities, and cybersecurity. There is a growing need for models that are not only accurate but also robust, ethical, and interpretable. Submissions addressing challenges such as data scarcity, bias, fairness, privacy, and ethical AI governance are particularly encouraged. We also welcome studies that delve deep into symmetry and invariance principles, leveraging spatial and temporal symmetries in data to ensure fairness and unbiased outcomes. By bridging theory and practice, this Special Issue aims to showcase how symmetry-inspired methods enhance generalization and resilience, enabling AI-enabled applications to deliver reliable, transparent, and impactful solutions to complex societal problems while advancing state-of-the-art technologies.

Guest Editors

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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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