

Special Issue

Symmetry/Asymmetry in Intelligent Control System

Message from the Guest Editor

- Intelligent control systems have become indispensable in a wide range of modern engineering applications, from autonomous vehicles and robotics to industrial automation and smart energy systems. A key, yet often underexplored, aspect in this field is the role of symmetry and asymmetry—both in the system dynamics and in the structure of control algorithms. Symmetry in control systems can enhance stability, simplify modeling, and reduce computational cost. Conversely, asymmetry often arises naturally in real-world systems—due to environmental disturbances, system constraints, or learning-based adaptation—and requires robust control strategies to handle such deviations. Understanding and leveraging these symmetrical or asymmetrical characteristics can lead to significant improvements in system performance, robustness, and adaptability.
- This Special Issue aims to gather original research and review articles that explore the theoretical foundations, algorithmic developments, and practical applications of symmetry/asymmetry in intelligent control systems.

Guest Editor

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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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