

Special Issue

Symmetry and Control Systems

Message from the Guest Editors

This Special Issue, "Symmetry and Control Systems", invites the submission of original research articles and high-quality reviews that explore the role of symmetry and asymmetry in the modeling, analysis, and control of dynamic systems. In modern science and engineering, symmetries manifest not only in the physical structure of systems but also in mathematical models, optimization formulations, control laws, and intelligent algorithms. The goal of this issue is to gather interdisciplinary contributions from applied mathematics, computer science, and engineering that address challenges in the design of predictive controllers, modeling of nonlinear and multivariable systems, real-time embedded implementations, and intelligent decision-making frameworks. Special emphasis is placed on symmetry-based methods that enhance computational efficiency, ensure system stability, and improve overall performance. Submissions related to machine learning, robotics, cyber-physical systems, process control, and sensor networks are particularly encouraged, provided a clear connection to symmetry phenomena is established.

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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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