

Special Issue

Symmetry/Asymmetry in Fuzzy Control

Message from the Guest Editors

The Special Issue “*Symmetry/Asymmetry in Fuzzy Control*” aims to analyze the transformative impact of fuzzy logic on the evolution of control methodologies applied to complex and uncertain systems. This issue focuses on the integration in key areas such as dynamical systems, robotics, renewable energy, adaptive and autonomous systems, and motion control, highlighting how fuzzy control increases adaptability, stability, and accuracy in diverse applications. In particular, the concept of symmetry in fuzzy controllers is explored, examining how the symmetric structure can simplify the design and improve the performance of control systems. At the same time, asymmetry allows for addressing more specific and complex scenarios by tuning controller responses to dynamic and nonlinear conditions. This collection seeks to provide new perspectives to address control challenges in modern engineering by promoting interdisciplinary collaboration, combining theoretical advances with practical implementations. Through algorithm development, comparative analysis, and case studies based on real applications,...

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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