Special Issue

Symmetries in Dynamical Systems and Control Theory

Message from the Guest Editors

Symmetry in dynamical systems and control theory plays a significant role in system modeling, analysis, and control design. Symmetry assists in identifying and elucidating the system's fundamental structure while simplifying dynamic analysis, thereby facilitating the design of efficient and resilient controllers. In recent years, with the improvement of mathematical tools and computing power, significant progress has been made in the application research of symmetry in complex dynamical systems, nonlinear control, multi-agent systems, robotics and network systems. We welcome and cordially invite you to engage in discourse on symmetry theory, dynamic analysis methods, symmetry-preserving control, and the utilization of symmetry in robot systems in power systems and control. Original research submissions in areas such as bifurcation and pattern formation under symmetric structures, Lie group and Lie algebra methods, and innovative applications of the combination of artificial intelligence and symmetry are required to promote theoretical innovation and cross-integration in this field.

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.

Editor-in-Chief

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