Symmetry and Control Systems: Theory and Applications

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

Symmetry is a widely used concept in physics and mathematics, characterized by many special properties. The application of symmetry in control systems can help us design more stable and efficient control algorithms to achieve more accurate control. In symmetry and control theory, we study how to understand the symmetry of physical systems and apply it to control system design. By analyzing the symmetry of physical systems, we can obtain important information about system performance and make control design simpler and more intuitive. The applications of symmetry and control theory are extensive, including robots, airplanes, automation control, and other fields. In summary, research on symmetry and control theory provides new tools and methods for control systems. The application of symmetry can help us design more effective control algorithms and improve system performance, and it has wide application prospects in engineering practice.

Special Issue

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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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