# Special Issue

## Symmetry and Asymmetry in the Control Theory

### Message from the Guest Editors

This Special Issue aims to assess the role that both symmetry and asymmetry play in shaping the architecture, behavior, and adaptability of intelligent control systems. Symmetrical control configurations often provide consistent responses across system elements, contributing to improved stability, predictability, and operational reliability. Conversely, asymmetric control approaches exhibit enhanced flexibility and adaptability, which are key issues in fields such as cooperative robotics and adaptive control. We welcome submissions that investigate the influence of symmetric and asymmetric design choices on system robustness, energy optimization, and responsiveness, with the goal of advancing theoretical understanding and practical applications of symmetry-based principles in modern intelligent control systems.

### Guest Editors


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### Deadline for manuscript submissions

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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

Prof. Dr. Sergei Odintsov
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