

## Special Issue

# Symmetry/Asymmetry of Applications in Automation and Control Systems

### Message from the Guest Editors

The natural beauty of symmetry and asymmetry exists in almost every automation and control system. For example, electronic rotors, aircraft wings, and spacecraft flywheel structures possess excellent symmetry in actuators, which contain the most important block of closed-loop control systems. Due to machining defects, these controlled objects are practically asymmetric, and external perturbations somehow break the symmetry. Therefore, we need to design sophisticated algorithms to ensure that these elegant systems can perform smoothly. For this Special Issue, we encourage authors to contribute original high-quality work about the symmetry and applications in automation and control systems, and in all areas of systems and control interpreted in a broad sense that is evolving constantly.

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### Guest Editors

Dr. Xiaoliang Wang

Dr. Ping Wang

Dr. Qiang Shen

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### Deadline for manuscript submissions

31 December 2025



## Symmetry

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*Symmetry*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[symmetry@mdpi.com](mailto:symmetry@mdpi.com)

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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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### Editor-in-Chief

Prof. Dr. Sergei Odintsov

1. ICREA, 08010 Barcelona, Spain

2. Institute of Space Sciences (IEEC-CSIC), C. Can Magrans s/n, 08193 Barcelona, Spain

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