

Special Issue

Asymmetric and Symmetric Studies on Robotics

Message from the Guest Editors

The Special Issue explores the impact of symmetry and asymmetry on robotics applications. Symmetry influences design, control, and motion planning, enhancing robot performance and adaptability. Understanding symmetry/asymmetry aids in tasks like object manipulation, locomotion, and coordination. Key topics include symmetry-aware perception, motion generation, task allocation, and bio-inspired robotics.

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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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