

Special Issue

Symmetry/Asymmetry and Its Applications in Deep Learning and Artificial Intelligence Methods

Message from the Guest Editors

The large amount and complexity of information generated around the world have given rise to new research capable of modeling complex real-life problems. Recently, symmetry has been a fundamental tool in the study and analysis of complex systems. In machine learning and artificial intelligence, symmetry/asymmetry has been used in both models and data. This Special Issue, titled “Symmetry/Asymmetry and Its Applications in Deep Learning and Artificial Intelligence Methods”, aims to focus on all aspects of symmetry/asymmetry, including its applications in deep learning and artificial intelligence. Authors are invited to submit outstanding, original, and unpublished research manuscripts focused on the latest findings in this field. This issue will help technicians in this field exchange the latest technical developments. The topics of interest include but are not limited to the following:

- Deep learning for symmetry;
- New deep learning algorithms and architectures;
- Deep learning for image/video recognition;
- Deep learning for style transfer and generative adversarial networks;
- Deep learning for intelligent human–computer interactions.

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.

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