Special Issue

Application of AI in Symmetry/Asymmetry Scenarios

Message from the Guest Editors

Symmetry and asymmetry are fundamental principles governing physical, biological, and engineered systems. Recent advances in artificial intelligence (AI) (including generative modeling, multi-agent systems, physics-informed neural networks, and so on) have unlocked novel methodologies to analyze, predict, and exploit symmetry/asymmetry across research scenarios. This Special Issue invites original research addressing AI-driven innovations in symmetry/asymmetry applications, from communication networks and disease prediction to urban construction. The present Special Issue proposes a platform for presenting the latest research results, research solutions to the existing barriers, and technological advancements as they pertain to the application of AI in symmetry/asymmetry scenarios.

Guest Editors

Dr. Chao Fang

School of Information Science and Technology, Beijing University of Technology, Beijing 100124, China

Dr. Zhuwei Wang

School of Information Science and Technology, Beijing University of Technology, Beijing 100124, China

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Symmetry
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
symmetry@mdpi.com

mdpi.com/journal/symmetry

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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
ICREA, 08010 Barcelona and Institute of Space Sciences (IEEC-CSIC), C. Can Magrans s/n, 08193 Barcelona, Spain

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