

## Applications Based on Symmetry/Asymmetry in Machine Learning

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### Message from the Guest Editors

Dear Colleagues,

This Special Issue aims to explore the applications of symmetry and asymmetry in machine learning with a focus on supporting blockchain technology. Symmetry and asymmetry play crucial roles in various aspects of machine learning, including data representation, feature extraction, classification, and anomaly detection. This Special Issue invites authors to contribute their research on the innovative utilization of symmetry and asymmetry in machine learning algorithms and techniques for blockchain applications. The goal is to deepen our understanding of how symmetry and asymmetry can enhance the efficiency, security, and scalability of blockchain systems while leveraging the potential of machine learning.





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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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