

Special Issue

Symmetry/Asymmetry in Data Mining & Machine Learning

Message from the Guest Editors

Symmetry and asymmetry, as central concepts in understanding the laws of nature, play an increasingly significant role in data mining and machine learning. To better advance research in this area, it is crucial to uncover the unknown symmetry and asymmetry properties inherent in data, models, and other components. Equally important is the development and analysis of techniques that incorporate symmetry and asymmetry principles in data processing and model design. We invite contributions addressing three key aspects: (1) discovery of symmetry/asymmetry patterns, (2) development of symmetry/asymmetry-based methods and models, and (3) comprehensive analysis of symmetry/asymmetry effects in data mining and machine learning systems.

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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