

Special Issue

Symmetry/Asymmetry Studies in Data Mining & Machine Learning

Message from the Guest Editors

Symmetry and asymmetry are fundamental properties in data mining and machine learning, influencing model design and performance. Symmetric measures like cosine similarity and Jaccard similarity, as well as symmetric kernels in SVMs, ensure consistent interactions between data points. Asymmetry, however, plays a role in directional relationships, such as sentiment analysis using antisymmetric matrices. Contributions are sought on the role of these properties in theory, algorithms, and applications, including computational, information-theoretic, and geometric interpretations. We encourage novel insights bridging symmetric and asymmetric techniques to advance the field.

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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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