Special Issue

Symmetry in Machine Learning and Text Mining

Message from the Guest Editor

- Machine learning and text mining advance rapidly, driven by new models, large-scale data, and expanding applications. From early learning theory, symmetry has played an important role in understanding patterns, reducing complexity, and guiding design. Invariance, equivariance, structural balance, and geometric regularity arise naturally in many real-world datasets. With the rise of deep learning, symmetry has not lost relevance — its importance has grown, as modern architectures increasingly rely on structured representations, stable behaviors, and efficient learning.
- This Special Issue highlights advances and applications that show how symmetry contributes to progress in machine learning and text mining. Topics include symmetry-aware neural architectures, geometric and group-theoretic learning, symmetric pattern discovery, improved text representations, robustness through invariance, and symmetry-driven improvements in classification, clustering, and sequence modeling.
- We welcome original research and comprehensive reviews that deepen our understanding of symmetry and its role in next-generation intelligent systems.

Guest Editor

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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

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