Special Issue

Symmetry/Asymmetry Studies in Data Mining & Machine Learning of Large Language Models

Message from the Guest Editors

Traditionally, symmetry has played a central role in data mining and machine learning, with algorithms often seeking to identify recurring patterns and regularities. While this approach has proven effective in certain domains, it faces limitations when dealing with the vast and complex datasets consumed by large language models (LLMs). In contrast, asymmetry offers a more nuanced perspective by acknowledging the inherent variability and irregularity within real-world data.

This Special Issue is dedicated to exploring the implications of symmetry and asymmetry in the context of large language models. For more details, please visit the Special Issue website: https://www.mdpi.com/journal/symmetry/special_issues/T3V2CK933E

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Deadline for manuscript submissions

31 January 2026

Symmetry

an Open Access Journal by MDPI

Impact Factor 2.2
CiteScore 5.3

mdpi.com/si/225322

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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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