

Special Issue

Symmetry and Fuzzy Set

Message from the Guest Editor

This Special Issue aims to provide a comprehensive platform for presenting cutting-edge research that bridges the gap between fuzzy logic and its extensions in the practical application of symmetry across various domains, including fuzzy measures, fuzzy relations, fuzzy control, fuzzy logic and data mining/machine learning, fuzzy decision making, fuzzy modeling, and fuzzy information retrieval. In recent years, the integration of fuzzy logic with multi-criteria methods has gained traction, improving the robustness of results obtained by MCDM/MCDA models. However, traditional MCDM methods encounter bottlenecks in high-dimensional problems. Limited research has evaluated the effectiveness of LLMs in tackling specific MCDM problems where symmetry may be present. We wish to further explore the capability of LLMs by proposing approaches for automatically addressing general, complex MCDM problems. Submissions involving applications of fuzzy theory and/or its extensions—where symmetry, or a deliberate lack thereof, is present—are also welcome.

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.

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