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Symmetry and Advances in Fuzzy Sets and Fuzzy Optimization in Artificial Intelligence

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Deadline for manuscript submissions:
2 July 2024

Message from the Guest Editors

Dear Colleagues,

Real-world systems' uncertainty and imprecision challenge traditional deterministic models. Fuzzy sets, fuzzy optimization, and symmetry offer solutions, notably in AI and neural networks. Despite progress, areas such as decision-making through online data classification and AI interpretability need more exploration.

In this Special Issue, "Symmetry and Advances in Fuzzy Sets and Fuzzy Optimization in AI," we invite submissions of the latest advancements in these fields, focusing on AI's classification and interpretability. We particularly encourage works that advance decision-making methodologies, integrating online data classification and enhancing AI interpretability within the scope of symmetric fuzzy sets and fuzzy optimization.

We aim to deepen our understanding of the complex relationship between symmetric fuzzy sets, fuzzy optimization, and AI in managing real-world systems' uncertainty and imprecision.

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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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