Probabilistic Preference Theory and Applications in Complexity and Symmetry System Modeling

Guest Editors:

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Deadline for manuscript submissions:
closed (31 October 2021)

Message from the Guest Editors

Dear Colleagues,

Given the information processing required to study complexity, the use of computers and mathematical tools has been central to complex system research. Probabilistic preference theory refers to using probabilities to align humans' thoughts and perceptions. In addition, symmetry reflects specific characteristics, property, and evolutionary trends of from simple data to model calculations, which may help people dealing with uncertainties in real life.

As such, this Special Issue aims to emphasize probabilistic preference theory and its application in complexity and symmetry system modeling.

We invite researchers worldwide to submit high-quality original papers that focus on probabilistic preference theory in complex and symmetrical systems, especially including the following topics:

★ Probabilistic linguistic term/hesitant fuzzy set and symmetry system modeling;

★ Complexity/symmetry system modeling with probabilistic preference sets;

★ Applications of probabilistic preferences in big data analytics;

★ Applications in modern AI of probabilistic preference theory

Special Issue

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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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