Special Issue

Symmetry/Asymmetry in Fuzzy Sets and Fuzzy Systems

Message from the Guest Editors

In recent years, fuzzy systems have continued to demonstrate significant value in automatic control, pattern recognition, and decision support. Unlike traditional precise modeling, fuzzy systems represent inputs, outputs, and states with fuzzy sets and integrate fuzzy rules, fuzzy reasoning, and fuzzy logic—offering a unified paradigm for handling uncertainty, vagueness, and incompleteness. As data scale and complexity grow, symmetry/asymmetry becomes increasingly central to fuzzy-system design: it emerges in fuzzy similarity, dependency measures, membership-function construction, neighborhood and granularity structures, and the design of losses and regularizers (e.g., the structural symmetry between fuzzification and defuzzification). This Special Issue focuses on methodological advances at the intersection of fuzzy–rough computing and granular computing with uncertainty learning. We particularly welcome cutting-edge research on uncertain information processing and intelligent reasoning, spanning the full spectrum from theoretical modeling to algorithm design and application-oriented validation.

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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.

Editor-in-Chief

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