



Symmetry/Asymmetry and Fuzzy Systems

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Message from the Guest Editors

In recent years, fuzzy systems have played a vital role in automatic control, pattern recognition, decision analyses, man–machine dialogue systems, affective computing, etc. They characterize the input, output and state variables on fuzzy sets, which integrate fuzzy rules, fuzzy reasoning, fuzzy logic and uncertain artificial intelligence, skilled in imitating the comprehensive inference of humans to deal with uncertain information processing difficult-to-solve problems with conventional mathematical methods.

In fuzzy systems, there often exists a large number of symmetric/asymmetric phenomena, as well as many symmetric/asymmetric structures in the implementation mechanism or practical application of fuzzy systems, for example, the fuzzer and defuzzer constituting a symmetric structure. Additionally, the symmetric implicational method is a recently proposed fuzzy reasoning strategy in the fuzzy system, with symmetry and asymmetry having aroused great interest in many researchers, becoming a novel academic focus. Therefore, this Special Issue welcomes original research and review articles regarding all aspects of symmetry/asymmetry and fuzzy systems.





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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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