Special Issue

Symmetry: Mathematical Applications (Fuzzy Systems, Artificial Intelligence, and Neuro-Fuzzy) in Energy and Agricultural Systems

Message from the Guest Editors

In recent times, fuzzy systems, intelligent systems utilizing artificial neural networks (ANNs), and their fusion, neuro-fuzzy systems have played vital roles in a wide range of applications, including automatic control, pattern recognition, decision analysis, human–machine interactions, affective computing, and symmetry analysis. These technologies, which were previously underutilized, now find a variety of applications, especially in sectors such as energy and agricultural systems, where symmetrical considerations can enhance efficiency and performance. These advanced technologies are widely applied in managing uncertainties, forecasting demand, fault detection, and adaptively adjusting operations in energy systems, resulting in significant improvements in efficiency, reliability, and sustainability, often leveraging principles of symmetry for optimization. Additionally, they play a crucial role in agricultural systems, facilitating crop management, crop forecasting, environmental monitoring, disease diagnosis, and optimization of agricultural practices through the lens of symmetry, promoting efficiency, productivity, and sustainability in these sectors...

Guest Editors

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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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