

Special Issue

Advanced Fuzzy Logic in Artificial Intelligence

Message from the Guest Editors

Fuzzy logic is a mathematical theory and method for handling imprecision, incompleteness, and uncertainty, thereby helping artificial intelligence systems better understand and process complex and fuzzy information. In recent years, artificial intelligence, namely, deep learning, has faced challenges such as poor interpretability and robustness. This Special Issue will focus on fuzzy logic and its latest applications in artificial intelligence, aiming to bring together peers in a wide range of disciplines and promote the rapid development of this field. The main themes of this Special Issue include (but are not limited to) the following: formal systems of fuzzy logic, fuzzy logic operators, information aggregation functions, fuzzy inference algorithms, fuzzy control and optimization, fuzzy rough sets and their applications, fuzzy clustering algorithms, fuzzy neural networks, fuzzy multi-attribute decision-making, three-way decision-making and conflict analysis, and uncertainty in artificial intelligence.

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Message from the Editor-in-Chief

The journal *Mathematics* publishes high-quality, refereed papers that treat both pure and applied mathematics. The journal highlights articles devoted to the mathematical treatment of questions arising in physics, chemistry, biology, statistics, finance, computer science, engineering and sociology, particularly those that stress analytical/algebraic aspects and novel problems and their solutions. One of the missions of the journal is to serve mathematicians and scientists through the prompt publication of significant advances in any branch of science and technology, and to provide a forum for the discussion of new scientific developments.

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