

Special Issue

From Theory to Impact: Applications of Fuzzy Sets and Metaheuristic Algorithms

Message from the Guest Editors

This Special Issue aims to deepen the effective integration of fuzzy sets and metaheuristic algorithms, introducing innovative methods designed to address contemporary challenges in various fields. These powerful tools offer reliable solutions for a wide range of complex tasks. The Special Issue will highlight not only the development of fuzzy set theory and metaheuristic algorithms but also the significant expansion of application areas. The interdisciplinary application of fuzzy sets and metaheuristic algorithms allows for addressing problems characterised by uncertainty, imprecision, and high dimensionality. From engineering and robotics to finance and environmental science, researchers are continuously exploring new ways to combine fuzzy logic's capacity to handle ambiguity with the powerful search capabilities of metaheuristic algorithms. We invite submissions that explore recent advances and innovative approaches. This includes, but is not limited to, research on novel hybrid algorithms, advancements in specific extensions of fuzzy sets, and the application of various metaheuristic techniques to practical problems.

Guest Editors

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About the Journal

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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