

Special Issue

Fuzzy Multi-Criteria Decision-Making and Its Applications in Industry, Management and Operation Research

Message from the Guest Editor

Fuzzy multi-criteria decision-making (FMCDM) is a vital and rapidly evolving field that extends classical MCDM methods to handle uncertainty and imprecision in decision problems. It encompasses fuzzy variants of established techniques (e.g. fuzzy AHP, fuzzy TOPSIS, and fuzzy DEMATEL) that allow decision-makers to use linguistic and subjective evaluations. These fuzzy approaches yield more realistic, sensitive, and robust outcomes by quantifying qualitative judgments. They have proven valuable in diverse application domains (e.g. manufacturing, supply chain, energy, and healthcare) where decisions involve multiple conflicting criteria.

This Special Issue calls for studies on theoretical advances, hybrid FMCDM models, and real-world applications in industry, management, and operations research. Contributions are welcomed on both theoretical and practical fronts, including but not limited to fuzzy AHP, fuzzy TOPSIS, fuzzy DEMATEL, fuzzy VIKOR, hybrid models, and intelligent decision support systems. Emphasis is placed on applications in areas such as supply chain management, project evaluation, resource allocation, manufacturing systems, energy planning, and risk assessment.

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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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