

Special Issue

New Advancements in Fuzzy Sets Theory, Generalizations and Applications

Message from the Guest Editors

This Special Issue aims to bring together cutting-edge research and novel developments in the theory of fuzzy sets, their generalizations, and a wide range of emerging applications. Emphasis will be placed on new mathematical foundations, generalized models (such as intuitionistic, hesitant, type-2, Pythagorean, Fermatean, and spherical fuzzy sets), as well as interdisciplinary approaches that extend the traditional boundaries of fuzzy logic. Contributions that propose innovative theoretical insights, as well as those that demonstrate practical implementations in real-world systems, are particularly encouraged. The scope of this Special Issue includes, but is not limited to, the following topics:

- New theoretical developments in fuzzy set theory and logic;
- Generalizations of fuzzy sets (intuitionistic, interval-valued, hesitant, picture, type-2, q-rung, spherical, etc.);
- Fuzzy relations, measures, and operations;
- Uncertainty modeling and decision-making under vagueness;
- Fuzzy approaches in engineering, economics, healthcare, environmental sciences, and social sciences;
- Fuzzy MCMD (AHP/TOPSIS/VIKOR...);
- Hybrid models combining fuzzy sets with rough sets, soft sets, or probabilistic models.

Guest Editors

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About the Journal

Message from the Editor-in-Chief

Axioms is dedicated to the foundations (structure and axiomatic basis, in particular) of mathematical theories, not only from a crisp or strictly classical sense, but also from a fuzzy and generalized sense. This includes the more innovative current scientific trends, devoted to discover and solve new challenging problems. The prime goal of *Axioms* is to publish first-class, original research articles under an open access policy with minimal fees for the authors. We would be pleased to welcome you as one of our authors.

Editor-in-Chief

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