New Trends in Fuzzy Sets Theory and Their Extensions

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Message from the Guest Editors

The Special Issue welcomes original contributions that advance the state-of-the-art fuzzy-sets-theory-based concepts, methodologies, algorithms and applications in several emerging and related topics. Special attention of this Special Issue will be paid to the following research topics: a) new fuzzy representation models, b) fuzzy machine learning, c) granular fuzzy models, d) data-driven fuzzy modeling, e) fuzzy information fusion and aggregation functions, f) fuzzy logic, and g) fuzzy set theory-based applications in science and engineering.

Keywords：

- fuzzy rules and reasoning
- fuzzy set operations
- fuzzy measures
- fuzzy logic
- fuzzy relations and relational computing
- information granules and granular computing
- fuzzy-based linguistic approximation
- fuzzy set transformation and fuzzy arithmetic
- higher type, higher order fuzzy sets and hybrid fuzzy sets
- fuzzy partitions
- fuzzy information fusion
- fuzzy neurocomputing
- granular fuzzy models
- explainable artificial intelligence (XAI)
- fuzzy-based data mining
- elicitation of membership functions
- fuzzy decision-theory
- fuzzy decision making

Special Issue

- fuzzy-sets-theory-based applications

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Message from the Editor-in-Chief

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