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Fuzzy Sets and Systems

Aims and Scope

Since its launching in 1978, the Journal Fuzzy Sets and Systems has been devoted to the international advancement of the theory and application of fuzzy sets and systems. The theory of fuzzy sets now encompasses a well organized, comprehensive and mathematically sound body of knowledge (and not restricted to) aggregation operations, a generalized theory of relations, specific measures of information and more. Fuzzy sets and systems are also the cornerstone of a non-additive uncertainty theory. The journal is the official organ of a versatile tool for both linguistic and numerical modeling: fuzzy rule-based systems. Numerous works now combine fuzzy concepts with other disciplines as well as modern technologies.

In mathematics, fuzzy sets have triggered new research topics in connection with category theory, topology, algebra, analysis. Fuzzy sets are also of a recent trend in the study of generalized measures and integrals, and are compared with statistical methods. Furthermore, fuzzy sets have strong logical underpinnings in the tradition of many-valued logics. Fuzzy set-based techniques are also an important ingredient in the development of information technologies. In the field of information processing fuzzy sets are important in clustering, data analysis and data fusion, pattern recognition and computer vision. Fuzzy rule-based modeling has been combined with other techniques such as neural nets and evolutionary computing and applied to systems and control engineering, with applications to robotics, complex process control and supervision. In the field of information processing, fuzzy sets play a role in the development of intelligent and flexible man-machine interfaces and the field of computational intelligence. In artificial intelligence various forms of knowledge representation and automated reasoning frameworks benefit from fuzzy set-based reasoning, for instance in possibilistic reasoning, non-monotonic reasoning, diagnosis, logic programming, constraint-directed reasoning, etc. Fuzzy expert systems have been devised for fault diagnosis, and as an aid to decision-making. In decision and organization sciences, fuzzy sets have had a great impact in preference modeling and multicriteria evaluation, and have helped develop decision and production research, and finance. Moreover concepts and methods of fuzzy set theory have been applied extensively in many other disciplines pertaining to human-oriented studies such as cognitive psychology and some aspects of the social sciences. The scope of the journal Fuzzy Sets and Systems is hence broad, ranging from pure mathematics, logic, probability and statistics, through the fuzzy sets and systems paradigm, to their many applications in various fields. As Fuzzy Sets and Systems is the official publication of IFSA, the International Fuzzy Systems Association, it presents accounts of the activities of research groups around the world. As Fuzzy Sets and Systems is the official journal of the IFSA, it presents accounts of the activities of research groups around the world.

Bulletin Section

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