

Modelling of Real-Life Problems Using Fuzzy Sets and It's Generalizations

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ABSTRACT

After the inception of Zadeh's fuzzy set theory in the year 1965, it becomes possible to model various real life problems containing vague informations and uncertainties. The fuzzy set theory becomes a great tool to tackle real world situations as it is used to deal various uncertainties. Applications of fuzzy set theory can be found in many disciplines such as mathematics, physics, economics, engineering, computer science, management science, finance, environment, operation research, marketing etc.

The fuzzy set theory has been successfully emerged in the real world domains such as in washing machines, in traffic flow problems, video cameras, artificial intelligence, pattern recognition, image processing, data mining, robotics and many more.

Fuzzy set theory covered a lot of real life problems in a successful manner. The theory is utilized by engineers, scientists, medical persons, social workers, teachers, even students with a great success. The aim of organizing this special session is to bring well-known and potential scientists, engineers, researchers and students together from all around the world to exchange and share their experiences and research results for the better understanding of all aspects of Fuzzy Set Theory and Applications. It also provides a unique interdisciplinary platform for young researchers and practitioners to discuss the real world practical challenges encountered and their solutions adopted by fuzzy set theory and its extensions.

Topics: Fuzzy Sets; Interval-Valued and Intuitionistic Fuzzy Sets; Pythagorean Fuzzy Sets; Ortho-pair Fuzzy Sets; Hesitant Fuzzy Sets, Neutrosophic Sets, etc.