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Special Issue Reprint

Research on Fuzzy Logic and Mathematics with Applications, 3rd Edition

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This Reprint largely concerns fuzzy set theory and related topics which deal with the uncertainty of information when modeling/working with real-world problems. The theory of fuzzy sets has sparked some new computing methods with applications in decision-making, identification, optimization, information, control, etc. This theory is a valuable conceptual tool to cope with vague concepts and one that provides a unifying framework for modeling various types of data/information. The theory of fuzzy mathematics stems from the notion of graded membership, which is allegedly motivated by the processes of human perception and cognition. It is well-known that the fuzzy set theory and fuzzy logic are used in different parts of engineering, such as control systems, robotics, automation, consumer electronics, image processing, etc. In this Reprint, fuzzy logic and mathematics are the focus, with applications in decision-making, graph theory, soft set theory, fuzzy semantics, fuzzy and neutrosophic topologies, decision-making, theory of fuzzy graphic binary metroid, and theory of neutrosophic rhotrices. The motivation and the goal of this Reprint is to bring together researchers to contribute to this amazing field of research, and to also inspire interested readers and researchers alike as an effective tool to deal with imprecise and uncertain environment.

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