



# **Axiomatic Fuzzy Set Theory and Its Applications (Studies in Fuzziness and Soft Computing)**

*Xiaodong Liu, Witold Pedrycz*

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It is well known that “fuzziness”—information granules and fuzzy sets as one of its formal manifestations—is one of important characteristics of human cognition and comprehension of reality. Fuzzy phenomena exist in nature and are encountered quite vividly within human society. The notion of a fuzzy set has been introduced by L. A. Zadeh in 1965 in order to formalize human concepts, in connection with the representation of human natural language and computing with words. Fuzzy sets and fuzzy logic are used for modeling imprecise modes of reasoning that play a pivotal role in the remarkable human abilities to make rational decisions in an environment affected by uncertainty and imprecision. A growing number of applications of fuzzy sets originated from the “empirical-semantic” approach. From this perspective, we were focused on some practical interpretations of fuzzy sets rather than being oriented towards investigations of the underlying mathematical structures of fuzzy sets themselves. For instance, in the context of control theory where fuzzy sets have played an interesting and practically relevant function, the practical facet of fuzzy sets has been stressed quite significantly. However, fuzzy sets can be sought as an abstract concept with all formal underpinnings stemming from this more formal perspective. In the context of applications, it is worth underlying that membership functions do not convey the same meaning at the operational level when being cast in various contexts.

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