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Connectives and quantifiers in fuzzy sets

Ronald R. Yager

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Abstract

We discuss some of the issues involved in the selection of appropriate operators for implementing the union and intersection of fuzzy subsets. We discuss the extension principles used in extending operators to fuzzy subsets. We provide a structure for aggregating linguistic variables in the theory of approximate reasoning. We look at mean operators on fuzzy subsets as well as the inclusion of importances in aggregation. We discuss non-monotone set operators. We introduce the concept of linguistic quantifiers and look at some applications of these structures. We are particularly concerned with their application to linguistic summarizers, syllogistic reasoning and multi-criteria decision making.



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Keywords

Fuzzy subsets, intersection, union, quantifiers, aggregation, multi-criteria

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