A Novel Direct Relational Heuristic Algorithm of Possibilistic Clustering

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Abstract

The paper deals with the problem of a heuristic approach to possibilistic clustering. The approach is based on the concept of allotment among fuzzy clusters. The paper provides the description of basic definitions of the heuristic approach to possibilistic clustering. A new parameter for algorithms is introduced and a new relational algorithm for unknown number of fuzzy clusters is proposed. An illustrative example of application of the proposed algorithm to Tamura's portrait data set is considered. Preliminary conclusions are formulated.

References


**Index Terms**

Computer Science 

Algorithms

**Keywords**

Possibilistic Clustering  Fuzzy Tolerance  Fuzzy Cluster  Allotment  Cluster Size.