Similarity Based Membership of Elements to Uncertain Concept in Information System

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Abstract : The process of determining the degree of membership for an element to an uncertain concept has been found in many ways, using equivalence and symmetry relations in information systems. In the case of similarity, these methods did not take into account the degree of symmetry between elements. In this paper, we use a new definition for finding the membership based on the degree of symmetry. We provide an example to clarify the suggested methods and compare it with previous methods. This method opens the door to more accurate decisions in information systems.
Keywords : information system, uncertain concept, membership function, similarity relation, degree of similarity
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