An Approach to Data Reduction and Decision Making Problem by Hybridization of Fuzzy Soft Set and Graph Theory

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Abstract

To deal with the uncertainties present in real life situations both fuzzy set and soft set approach are concerned. But these approaches have some challenges, to solve related dilemma a hybridization approach is operated known as fuzzy soft set approach, which is the hybridization of fuzzy sets and soft set theory. Graph theory is also a significant tactic to solve some existent problem graphically. In this paper, a brief study of fuzzy soft sets and graph theory are done. Here a definition of fuzzy soft graph is defined and give a method to solve decision making problem and data reduction problem by using fuzzy soft set definition defined by us. At last discuss an application of decision making and data reduction problem by using fuzzy soft sets and graph theory.

References


Index Terms

Computer Science Fuzzy Systems
Keywords

Fuzzy set, soft set, fuzzy soft set, graph theory, soft graph, fuzzy soft graph, feature selection, decision making.