عنوان مقاله:

APPLICATIONS OF ROUGH SOFT TO EXTENSIONS SEMIHYPERGROUPS INDUCED BY OPERATORS AND CORRESPONDING DECISION-MAKING METHODS

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خلاصه مقاله:

In this paper, we apply a rough soft set to a spe-cial algebraic hyperstructure, and give the concept of a rough soft semihypergroup. We propose the notion of lower and upper approximations concerning a special semihypergroup and obtain some properties. Moreover, we consider a connection between the lower(upper) approximation of a special semihypergroup and the lower(upper) approximation of the associated -hypergroupoid. In the last section of this research, we discuss the decision-making algorithm of rough soft semihypergroups. Afterward, we obtain a relation between the decision-making algorithm of rough soft semi-hypergroups and their associated rough soft -hypergroupoids for a special semihypergroup.

کلمات کلیدی:

Semihypergroup, \Gamma-semihypergroup, regular relation, Pawlak space, rough soft set

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