
NEW PAWLAK APPROXIMATIONS USING IDEAL WITH ECONOMIC APPLICATIONS

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ABSTRACT

Rough set theory is essentially concerned with equivalence relations. The theory, introduced by Pawlak, is based on Pawlak Approximations—consisting of the lower and upper approximations of any subset within the given Pawlak Approximation Space. The abstractions of rough sets which regarding topological structures have become important area in rough set theory. In this paper associated with j-neighborhood space and ideal, a new method for generalizing Pawlak rough sets are presented and their properties are investigated. It is compare with some of the former methods. Furthermore, an economic application is given as an example to show the idea suggested.

Keywords rough sets · j-neighborhood spaces · ideal · topology

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