

Rough (1,2,3)* Pre Generalized Closed Sets in Rough Tritopological Space

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ABSTRACT

Generalized closed sets were first introduced to topological spaces by N. Levine in 1970. In order to introduce the idea of rough set theory, Pawlak invented rough set theory. The mathematical foundation of the theory is an equivalence relation called the indiscernibility relation. Lower and higher approximations are two definable sets that can be used to characterize a rough set. The largest definable set contained in the given collection of objects is the lower approximation, while the smallest definable set contained in the provided set is the upper approximation. In order to look into the nanogeneralized pre-closed, pre-continuous, pre-irresolute, and pre-homeomorphism states, Bhuvaneswari has been introduced. The space of nanotopology and nanobitopology contains nano-generalized closed functions. Martin Kovar was the person who originally started the study of tritopological space. In this paper, a new family of functions known as Rough (1,2,3)* pre generalized closed functions ($R_{(1,2,3)^*} \text{pg}$) will be introduced and studied. To evaluate various features and their connections to existing functions in rough tri-topological space

Keywords: $R_{(1,2,3)^*}$ pg closure, $R_{(1,2,3)^*}$ pg interior, $R_{(1,2,3)^*}$ pg Closed

