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ON ψ -CLOSED FUZZY SETS, FUZZY ψ - OPEN MAPS AND FUZZY ψ - IRRESOLUTE MAPS IN FUZZY TOPOLOGICAL SPACES

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Abstract

In this paper, the class of ψ - closed fuzzy sets are introduced. This class properly fits between the class of closed fuzzy sets and the class of gs - closed fuzzy sets in fuzzy topological spaces. Further, the concept of fuzzy ψ - continuous, fuzzy ψ - irresolute mappings, fuzzy ψ - closed maps, fuzzy ψ - open maps and fuzzy ψ - homeomorphism in fuzzy topological spaces are also introduced, studied and some of their properties are obtained.

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Keywords : ψ -closed fuzzy sets, f ψ - continuous, f ψ - irresolute, f ψ - open, f ψ - closed mappings and f ψ - homeomorphism.