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MICRO Ψ -CONTINUOUS MAPS AND MICRO Ψ -IRRESOLUTE MAPS IN MICRO TOPOLOGICAL SPACES

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Abstract:

The aim of this paper is to introduce Micro ψ -continuous maps and Micro ψ -irresolute maps in Micro topological spaces. Fundamental properties are derived and associations with the previously existing maps are obtained.

Mathematics Subject Code: 54B05, 54A10, 54C05.

Keywords: Micro continuous map, Micro ψ -continuous map, Micro ψ -irresolute map.

1. Introduction:

Rough set theory is a new mathematical approach. The notion of rough set theory was proposed by Pawlak [6]. The concept of Nano topology was introduced by Carmel Richard [4]. He has defined the nano topological space with respect to a subset X of a universe U which is defined on lower, upper approximations and boundary region of X . Sakkaraiveeranan Chandrasekar [8] introduced the concepts of Micro continuous map and he also studied Micro semi-continuous and Micro pre-continuous maps in Micro topological spaces. The concept of Micro α -continuous maps was introduced by Chandrasekar and Swathi [5]. Anandhi and Balamani [1,2,3] studied the concept of Micro αg -closed sets, separation axioms and Micro αg -continuous maps and presented basic properties and theorems. Micro g -continuous map was introduced by Taha *et al.* [11]. Recently Sandhiya and Balamani [9] introduced Micro g^* -closed sets in Micro topological spaces and also Sowmiya and Balamani [10] introduced Micro ψ -closed sets in Micro topological spaces and examined their properties. In this paper we have introduced Micro ψ -continuous maps in Micro topological spaces. Dependency and independency relations are obtained by comparing the Micro ψ -continuous maps with already existing Micro continuous maps.