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# ADVANCES IN MATHEMATICAL AND STATISTICAL SCIENCE

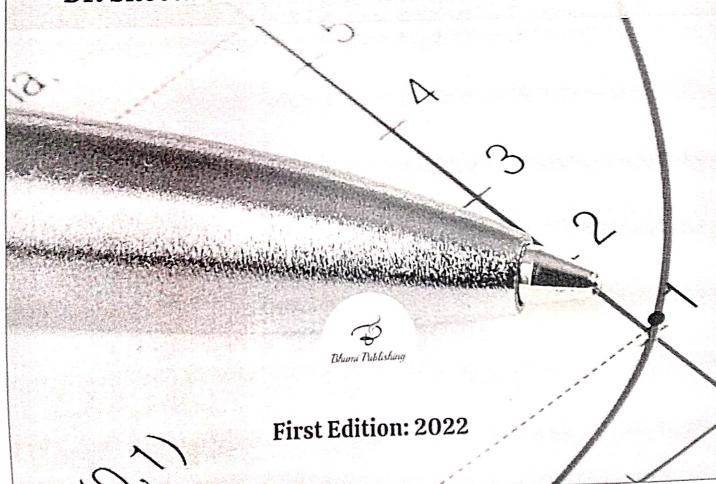
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## MICRO Ψ-CONTINUOUS MAPS AND MICRO Ψ-IRRESOLUTE MAPS IN MICRO TOPOLOGICAL SPACES

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#### Abstract:

The aim of this paper is to introduce Micro\_ $\psi$ -continuous maps and Micro  $\psi$ -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.