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ADVANCES IN MATHEMATICAL AND STATISTICAL SCIENCE

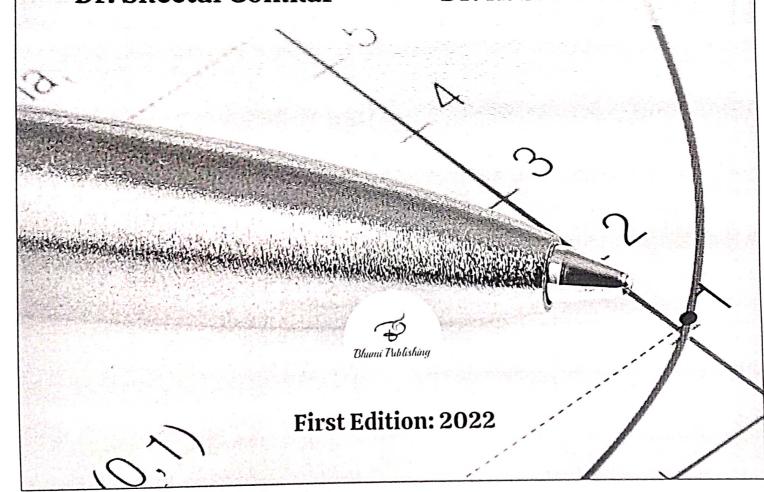
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MICRO g^* -CONTINUOUS MAPS AND MICRO g^* -IRRESOLUTE MAPS IN MICRO TOPOLOGICAL SPACES

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Abstract:

The purpose of this paper is to define Micro g^* -continuous maps and Micro g^* -irresolute maps in Micro topological spaces. Further we investigate the properties and characterizations of Micro g^* -continuous maps and Micro g^* -irresolute maps with pertinent examples.

Mathematical Subject Classification: 54B05, 54A10, 54C05

Keywords: Micro topological spaces, Micro continuous map, Micro g^* -continuous map, Micro g^* -irresolute map.

1. Introduction

The concept of rough set theory was studied by Pawlak [6] and he introduced the notion of lower approximation, upper approximation and boundary region of a subset of the universe. Carmel Richard [4] introduced the concept of Nano topology. The Micro topology was introduced by Sakkraiveeranan Chandrasekar [8] and he also studied the concepts of Micro preopen and Micro semi-open sets. Further he introduced the concept of Micro continuous map. He also defined Micro pre-continuous and Micro semi-continuous maps in Micro topological spaces. Chandrasekar and Swathi [5] introduced Micro α-continuity in Micro topological Taha et al. [11] initiated the concept of Micro g-continuous map. Anandhi and spaces. Balamani [1,2,3] initiated the concept of Micro α -generalized closed set, separation axiom and Micro ag-continuous map in Micro topological spaces. Recently, Sandhiya and Balamani [9] introduced the concept of Micro g^* -closed sets in Micro topological spaces and analyzed some of its properties. Moreover, Micro ψ -closed sets are introduced by Sowmiya and Balamani [10]. In this paper we have introduced a new class of Micro continuous and Micro irresolute maps called Micro g^* -continuous and Micro g^* -irresolute maps in Micro topological spaces. Also the relationship between these maps and other existing maps are obtained and their properties are analyzed.