

PAIRWISE $g^\#$ -BI-CONTINUITY AND $g^\#$ -STRONGLY BI-CONTINUITY IN BITOPOLOGICAL SPACES

SADANAND N. PATIL

Abstract

Sundaram and Shaik John [8] introduced the concept of g^* -closed sets and g^* -continuous maps in bitopological spaces. In the year 2004. Veerakumar [10] introduced and studied the concepts of $g^\#$ -closed sets and $g^\#$ -continuous maps in topological spaces. In this paper we introduce and study the concept of a new class closed sets, called $g^\#$ -closed sets in bitopological spaces. Moreover we introduce and study the new classes such as $(\tau_i, \tau_j) - \alpha T_{1/2}^\#$ -space, the class of $g^\#$ -closed sets properly fits between the class of closed sets and the class of g^* -closed sets.

Moreover we introduce and study the concepts of the $g^\#$ -continuous maps, pairwise $g^\#$ -irresolute maps, $g^\#$ -bi-continuity and $g^\#$ -strongly bi-continuity in bitopological spaces.

Key Words and Phrases: $(\tau_i, \tau_j) - g^*$ -Closed sets, $(\tau_i, \tau_j) - T_b^*$ Spaces, $(\tau_i, \tau_j) - \alpha T_b^*$ -Spaces, $(\tau_i, \tau_j) - T_b^{**}$ -Spaces, $(\tau_i, \tau_j) - *T_b$ - Spaces, $D^*S(\tau_i, \tau_j)$ -Continuity and Bitopological spaces.

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