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ON SOME ADVANCES IN STRONGER FORMS OF FUZZY g^*SEMI - CONTINUOUS FUNCTIONS IN FUZZY TOPOLOGICAL SPACES

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Abstract

In this paper, the class of g^*semi - closed fuzzy sets are introduced. This class properly fits between the class of semi-closed fuzzy sets and the class of sg - closed fuzzy sets in fuzzy topological spaces.

Further, the concept of the stronger forms of fuzzy g^*s-continuous functions namely strongly fuzzy g^*s-continuous, perfectly fuzzy g^*s-continuous and completely fuzzy g^*s-continuous have been introduced, studied and some of their properties are obtained.

Key Words and Phrases : *Fuzzy g^*s-continuous functions, strongly fuzzy g^*s-continuous, perfectly fuzzy g^*s-continuous and completely fuzzy g^*s-continuous.*

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