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ON SOME RECENT IN FUZZY *g -HOMEOMORPHISM IN FUZZY TOPOLOGICAL SPACES

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Abstract

The aim of this paper is to introduce a new class of fuzzy sets, namely *g - closed fuzzy sets for fuzzy topological spaces. This class is obtained by generalizing ĝ -open fuzzy sets via-g-open fuzzy sets. This new class is properly placed between the class of g*-closed fuzzy sets and the class of g-closed fuzzy sets. We also introduce and study fuzzy gT½* - spaces. Further, the concept of fuzzy *g -continuous, fuzzy *g -irresolute mappings, fuzzy *g -closed maps, fuzzy *g -open maps and fuzzy *g -homeomorphism in fuzzy topological spaces are also introduced, studied and some of there properties are obtained.

Keywords and phrases: *g -closed fuzzy sets, f *g -continuous, f *g -irresolute, f *g -open, f *g -closed mappings and f *g -homeomorphism.

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