Abstract

In 1999, Ozbakir and Coker [23] introduced the concept intuitionistic fuzzy multifunctions and studied their lower and upper intuitionistic fuzzy semi continuity from a topological space to an intuitionistic fuzzy topological space. The present paper introduces the concept of $\alpha$-continuous intuitionistic fuzzy multifunctions. An Intuitionistic fuzzy
multifunction $F$ from a topological spaces $(X, T)$ to an intuitionistic fuzzy topological spaces $(Y, \Gamma)$ is said to be Intuitionistic fuzzy $\alpha$-continuous at a point if for any $G^*_1, G^*_2 \in IFO(Y)$ such that $F(x_0) \subseteq G^*_1$ and $F(x_0) \cap G^*_2$ there exists $U \in \alpha O(X)$ containing $x_0$ such that $F(u) \subseteq G^*_1$ and $F(u) \cap G^*_2, \forall u \in U$. $F$ is called Intuitionistic fuzzy $\alpha$-continuous if it has this property at each point of $X$. Several properties and characterizations of Intuitionistic fuzzy $\alpha$-continuous

**Reference**

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**Index Terms**

Computer Science Fuzzy Systems

**Key words**

Intuitionistic fuzzy sets Intuitionistic fuzzy topology
Intuitionistic fuzzy multifunctions

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On $\alpha$-continuous Intuitionist Fuzzy Multifunction's