

Abstract

Let G be an IFG. Then $D$ is said to be a strong (weak) dominating set if every vertex is strongly (weakly) dominated by some vertex in $D$. We denote the strong (weak) intuitionistic fuzzy dominating set by $SD$-set ($WD$-set). The minimum vertex cardinality over all the $SD$-set ($WD$-set) is called the strong (weak) dominating number of an IFG and is denoted by $\gamma$.

In this paper, we introduce the strong (weak) domination in intuitionistic fuzzy graphs and obtain some bounds in IFG.

References


**Index Terms**

Computer Science  Fuzzy Systems

**Keywords**

Intuitionistic fuzzy graph, strong (weak) domination, strong (weak) domination number, dominating crictal