

#### عنوان مقاله:

A generalization of global dominating function

### محل انتشار:

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#### خلاصه مقاله:

Let \$G\$ be a graph. A function \$f: V (G) \longrightarrow \{0,1\}\$, satisfying the condition that every vertex \$u\$ with f(u) = 0 is adjacent with at least one vertex \$v\$ such that f(v) = 1, is called a dominating function f(DF). The weight of \$f\$ is defined as \$wet(f)=\Sigma\_{v \in V(G)} f(v)\$. The minimum weight of a dominating function of \$G\$ is denoted by \$\gamma (G)\$, and is called the domination number of \$G\$. A dominating function \$f\$ is called a global dominating function \$(GDF)\$ if \$f\$ is also a \$DF\$ of \$\overline{G}\$\$. The minimum weight of a global dominating function is denoted by \$\gamma\_{g}(G)\$ and is called global domination number of \$G\$. In this paper we introduce a generalization of global dominating function. Suppose \$G\$ is a graph and \$s\geq Y\$ and \$K\_n\$\ is the complete graph on \$V(G)\$. A function \$ f:V(G)\longrightarrow \{ \( \cdot, \lambda \} \\$ on \$G\$ is \$s\$-dominating function \$(s-DF)\$, if there exists some factorization \$\{G \,\ldots,G \s \\\\$ of \$K \n\$, such that \$G \=G\$ \ and \$f\$\ is dominating function of each .\$G\_i\$

# كلمات كليدى:

dominating function, global dominating function, \$s\$-dominating function, \$gamma\_s-\$function, \$gamma\_s-\$function

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