Let $G = (V, E)$ be a simple graph. Let $S$ be a maximum independent set of $G$. A subset $T$ of $S$ is called a forcing subset if $T$ is contained in no other maximum independent subset in $G$. The independent forcing number of $S$ denoted by $fl(G, S)$ is the cardinality of a minimum forcing subset of $S$. The independent forcing number of $G$ is the minimum of the independent forcing
Forcing Independent Spectrum in Graphs

number of $S$, where $S$ is a maximum independent subset in $G$. The independent forcing spectrum of $G$ denoted by $\text{SpecI}(G)$ is defined as the set $\text{SpecI}(G) = \{k : \text{there exists a maximum independent set } S \text{ of } G \text{ such that } f_{I}(G, S) = k\}$. In this paper, a study of $\text{SpecI}(G)$ is made.

Reference

- P.Adams, M.Mahdian and E.S. Mahmoodian, On the forced matching member of graphs, preprint".
- M.E.Riddle, The minimum forcing number for the forus and hyper cube, preprint.
- F.Harray, Graph theory, Addition Wesley, Reading Mass (1972).

Index Terms

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Key words

Forcing domination number of a graph

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