The concept of inverse domination was introduced by Kulli V. R. and Sigarakanti S. C. [9]. Let D be a \( \Delta \)-set of G. A dominating set \( D_1 \subseteq V - D \) is called an inverse dominating set of G with respect to D. The inverse domination number \( \gamma^* (G) \) is the order of a smallest inverse dominating set. Motivated by this definition we define another parameter as follows. Let D be a maximum independent set in G. An independent set \( S \subseteq V - D \) is called an inverse independent set with respect to D. The inverse independence Number \( \gamma_{0-1} (G) = \max |S| : S \text{ is an inverse independent set of } G \). We find few bounds on inverse domination number and also initiate the study of the inverse independence number giving few bounds on inverse independence number of a graph.

**References**

Inverse Independence Number of a Graph

- Tamizh Chelvam T and Grace Prema G. S., Equality of Domination and Inverse Domination, ARS Combinatoria, 95(2010), 103-111

Index Terms

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