

On the minimum locating number of graphs with a given order

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In a connected graph, a locating set S is a set of vertices satisfying that $N(u) \cap S \neq N(v) \cap S$ for any two vertices u and v not in S . In a network, a locating set can be considered as a network of monitors or sensors which can determine the exact location of an intruder. The smallest size of a locating set of a graph is called the locating number of the graph. In this talk we provide a lower bound of locating number of graphs with a given order.

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