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The strong metric dimension of a graph

A vertex w *strongly resolves* a pair u, v of vertices of a connected graph G if there exists some shortest $w - u$ path containing v or some shortest $w - v$ path containing u. A set S of vertices is a *strong metric generator* for G if every pair of vertices of G is strongly resolved by some vertex of S. The smallest cardinality of a strong metric generator for G is the *strong metric dimension* of G. We shall present exact values or sharp bounds for the strong metric dimension of cactus graphs and some product graphs.