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Dominating location in graphs

A dominating set $S = \{u_1, \dots, u_k\}$ of a graph G is locating dominating if every vertex v is uniquely determined by the k -vector $(d(v, u_1), \dots, d(v, u_k))$. If moreover, every vertex v not in S is also uniquely determined by the set of neighbors of v belonging to S , then it is called locating-dominating. In this talk, we present our more significant contributions on both minimum locating dominating and locating-dominating sets, concerning extreme values, realization theorems and Cartesian products.