

LOCATING DOMINATING CODES VERSUS LOCATING-DOMINATING CODES

JOSE CÁCERES, CARMEN HERNANDO, MERCÈ MORA, IGNACIO M.
PELAYO AND MARÍA LUZ PUERTAS

A dominating set $S = \{u_1, \dots, u_k\}$ of a connected graph G is called 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 said to be locating-dominating. In this talk, we present our more significant contributions on both minimum locating dominating and locating-dominating sets, mainly concerning extreme values, realization theorems and Cartesian products.