Abstract

Domination in graphs is an emerging area of research at present and it has applications to several fields such as School bus routing, Computer communication networks, Facility location problems, Locating radar stations problem etc. Recently dominating functions in domination theory have received much attention. The new concepts viz., unidominating functions and total unidominating functions have been introduced. In this paper some total unidominating functions of a path are presented and determined its total unidomination number. Also the number of total unidominating functions with minimum weight is investigated.

References


**Index Terms**

Computer Science

Applied Mathematics

**Keywords**

Path, Total unidominating function, Total unidomination number.