

## A NOTE ON PATH DOMINATION

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### Abstract

We study domination between different types of walks connecting two non-adjacent vertices  $u$  and  $v$  of a graph (shortest paths, induced paths, paths, tolled walks). We succeeded in characterizing those graphs in which every  $uv$ -walk of one particular kind dominates every  $uv$ -walk of other specific kind. We thereby obtained new characterizations of standard graph classes like chordal, interval and superfragile graphs.

**Keywords:** domination, paths, geodesics, chordal graphs, interval graphs.

**2010 Mathematics Subject Classification:** 05C38, 05C75, 05C69, 05C12.

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Received 19 December 2014

Revised 20 January 2016

Accepted 20 January 2016