

Clique Decompositions of the Distance Multigraph of the Cartesian Product of Graphs

Veerapas Boonthong
Chulalongkorn University
veerapas@gmail.com

The distance multigraph of a graph G is the multigraph having the same vertex set as G with $d_G(u, v)$ edges connecting each pair of vertices u and v , where $d_G(u, v)$ is the distance between vertices u and v in a graph G . This work gives a technique to find a clique decomposition of the distance multigraph of the Cartesian product of graphs.