The Pansophy of Multipartite Graphs

Jeffery Boats*, Lazaros Kikas, University of Detroit Mercy

In a 2017 paper, Boats and Kikas demonstrated that bipartite graphs are pansophical, meaning that the pansophy of all graphs in that general class can be computed either by explicit formula or by a recursion that can be implemented in polynomial time. In this paper, the result is generalized to multipartite graphs.

Keywords: pansophy, disjoint paths, multipartite graphs, interconnection network