

Pansophy on Semi Directed Graphs

Jeffrey Boats *, Lazaros Kikas, University of Detroit Mercy.

Given an ordered list of randomly-selected pairs of vertices in a graph, how many of these pairs can be connected with disjoint paths? The **pansophy** of a graph G is the expected number of possible disjoint paths – this has been calculated and studied for many classes of undirected graphs. In this paper we study the pansophy of various graphs where an edge or a select collection of edges have been directed. By doing this, how is the pansophy of G affected? Do specific selections of edges affect pansophy differently from other selections? These and other questions are addressed in this talk and paper.

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