

combinatorics and graph theory pdf

Combinatorics is an area of mathematics primarily concerned with counting, both as a means and an end in obtaining results, and certain properties of finite structures. It is closely related to many other areas of mathematics and has many applications ranging from logic to statistical physics, from evolutionary biology to computer science, etc. . To fully understand the scope of combinatorics ...

Combinatorics - Wikipedia

Graph theory is also widely used in sociology as a way, for example, to measure actors' prestige or to explore rumor spreading, notably through the use of social network analysis software. Under the umbrella of social networks are many different types of graphs. Acquaintanceship and friendship graphs describe whether people know each other.

Graph theory - Wikipedia

CHAPTER 1. DEFINITIONS AND FUNDAMENTAL CONCEPTS 3
 v_1 and v_2 are adjacent. The degree of v_1 is 1 so it is a pendant vertex. e_1 is a pendant edge. The degree of v_5 is 5. The degree of v_4 is 2. The degree of v_3 is 0 so it is an isolated vertex. In the future, we will label graphs with letters, for example:

GRAPH THEORY - TUT

Graphs and Combinatorics is an international journal, which was established in 1985. It is devoted to research concerning all aspects of combinatorial mathematics, especially graph theory and discrete geometry.

Graphs and Combinatorics - incl. option to publish open access

Graph theory is rapidly moving into the mainstream of mathematics mainly because of its applications in diverse fields which include biochemistry (genomics), electrical engineering (communications networks and coding theory), computer science (algorithms and computations) and operations research (scheduling).

Applications of Graph Theory - Four Color Theorem

Graph Spectrum. The set of graph eigenvalues of the adjacency matrix is called the spectrum of the graph. (But note that in physics, the eigenvalues of the Laplacian matrix of a graph are sometimes known as the graph's spectrum.) The spectrum of a graph with m -fold degenerate eigenvalues is commonly denoted (van Dam and Haemers 2003) or (Biggs 1993, p. 8; Buekenhout and Parker 1998).

Graph Spectrum -- from Wolfram MathWorld

Discrete Mathematics provides a common forum for significant research in many areas of discrete mathematics and combinatorics. Among the fields covered by Discrete Mathematics are graph and hypergraph theory, enumeration, coding theory, block designs, the combinatorics of partially ordered sets, extremal set theory, matroid theory, algebraic combinatorics, discrete geometry, matrices, and ...

Discrete Mathematics | ScienceDirect.com

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