



Real world applications of discrete mathematics

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Abstract

Discrete mathematics is an important branch of applied mathematics and graph theory is an important part of discrete mathematics. It have lot of applications in modern society. Graph colouring or graph labeling is an important branch of graph theory which can easily solve many real life problems. In this article, we have shown some direct applications of discrete mathematics, like applications of graph theory to scheduling problems, coloring of map in GSM mobile phone networks, google maps or GPS, traffic signal lights, Social networks, aircraft scheduling, etc.

Keywords

colouring, scheduling problem, interval graph.

AMS Subject Classification

05C85, 68R10.

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1. Introduction

Mathematics is classified into two branches, *Applied Mathematics* and *Pure Mathematics*. *Discrete Mathematics* is an essential branch of *Applied Mathematics* and *Graph Theory* is a crucial topic in the field of *Discrete Mathematics*. Graphs are significant since the graph is the only way of revealing information in pictorial form. A graph display information which is equivalent to many words. Computer science applications highly utilize graph-theoretical notions. Some well known graph theoretic problems are: Shortest path problem, job sequencing problem, conditional covering problem, traveling salesman problem, graph colouring problem, etc.

Graph Colouring is a significant problem in graph theory. This problem is widely used to solve many real problems, viz:

scheduling, resource allocation, traffic phasing, task assignment, etc [1, 2, 13]. $L(k_1, k_2, \dots, k_n)$ -labeling of the graph is the generalization of Graph Colouring problem and it has also widely applied to solve frequency assignment problem in wireless communication [3–12].

In this article, some applications of graph colouring have been studied. An introduction is given in section 1, some basic terms related to graph theory are provided in section 2. Graph colouring and extension of graph colouring are provided in section 3. Then, in section 4, some important graph theory applications and graph colouring to solve real life problems are presented. Finally in section 5, a brief conclusions has presented.

2. Basic Concept in Graph Theory

Earlier, we may realize the graph's application, so we must know graph theory related some definition. The author of this paper defined some terms related to graph theory most readily.

Definition 2.1. A graph usually denoted by $G = (V, E)$ and consists of the set of vertices (nodes) V together with a set of edges E . The number of vertices in a graph is generally denoted by n while the number of edges is denoted by m .

Example: Let there be direct flights between the countries, India(i) and America(a); India(i) and China(c); America(a)

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Pethuru Raj, Pushan Kumar Dutta, Peter Han Joo Chong, Houbing Herbert Song, Dmitry A. Zaitsev, 2025-01-27 Applied Graph Data Science Graph Algorithms and Platforms Knowledge Graphs Neural Networks and Applied Use Cases delineates how graph data science significantly empowers the application of data science The book discusses the emerging paradigm of graph data science in detail along with its practical research and real world applications Readers will be enriched with the knowledge of graph data science graph analytics algorithms databases platforms and use cases across a variety of research and topics and applications This book also presents how graphs are used as a programming language especially demonstrating how Sleptsov Net Computing can contribute as an entirely graphical concurrent processing language for supercomputers Graph data science is emerging as an expressive and illustrative data structure for optimally representing a variety of data types and their insightful relationships These data structures include graph query languages databases algorithms and platforms From here powerful analytics methods and machine learning deep learning ML DL algorithms are quickly evolving to analyze and make sense out of graph data As a result ground breaking use cases across scientific research topics and industry verticals are being developed using graph data representation and manipulation A wide range of complex business and scientific research requirements are efficiently represented and solved through graph data analysis and Applied Graph Data Science Graph Algorithms and Platforms Knowledge Graphs Neural Networks and Applied Graph Data Science gives readers both the conceptual foundations and technical methods for applying these powerful techniques Provides comprehensive coverage of the emerging paradigm of graph data science and its real world applications Gives readers practical guidance on how to approach and solve complex data analysis problems using graph data science with an emphasis on deep analysis techniques including graph neural networks GNNs machine learning algorithms graph databases and graph query languages Covers extended graph models such as bipartite directed graphs of place transition nets graphs with dynamical processes defined on them Petri and Sleptsov nets and graphs as programming languages Presents all the key tools and techniques as well as the foundations of graph theory including mathematical concepts research and graph analytics Biophysics, Biostatistics and Computer Application Mr. Rohit Manglik, 2024-03-02 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources

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