
ALGORITHMIC GRAPH THEORY

ALAN GIBBONS



Algorithmic Graph Theory Gibbons

Rainer Bodendiek



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Algorithmic Graph Theory Alan Gibbons,1985-06-27 An introduction to pure and applied graph theory with an emphasis on algorithms and their complexity *Algorithmic Graph Theory* James A. McHugh,1990 **Applied and Algorithmic Graph Theory** Gary Chartrand,Ortrud R. Oellermann,1993 Designed as a bridge to cross the gap between mathematics and computer science and planned as the mathematics base for computer science students this maths text is designed to help the student develop an understanding of the concept of an efficient algorithm **Algorithm Designs , Algorithms on Trees and Graphs** Gabriel Valiente,2021-10-11 Graph algorithms is a well established subject in mathematics and computer science Beyond classical application fields such as approximation combinatorial optimization graphics and operations research graph algorithms have recently attracted increased attention from computational molecular biology and computational chemistry Centered around the fundamental issue of graph isomorphism this text goes beyond classical graph problems of shortest paths spanning trees flows in networks and matchings in bipartite graphs Advanced algorithmic results and techniques of practical relevance are presented in a coherent and consolidated way This book introduces graph algorithms on an intuitive basis followed by a detailed exposition in a literate programming style with correctness proofs as well as worst case analyses Furthermore full C implementations of all algorithms presented are given using the LEDA library of efficient data structures and algorithms *An Introduction to Data Structures and Algorithms* J.A. Storer,2012-12-06 Data structures and algorithms are presented at the college level in a highly accessible format that presents material with one page displays in a way that will appeal to both teachers and students The thirteen chapters cover Models of Computation Lists Induction and Recursion Trees Algorithm Design Hashing Heaps Balanced Trees Sets Over a Small Universe Graphs Strings Discrete Fourier Transform Parallel Computation Key features Complicated concepts are expressed clearly in a single page with minimal notation and without the clutter of the syntax of a particular programming language algorithms are presented with self explanatory pseudo code Chapters 1 4 focus on elementary concepts the exposition unfolding at a slower pace Sample exercises with solutions are provided Sections that may be skipped for an introductory course are starred Requires only some basic mathematics background and some computer programming experience Chapters 5 13 progress at a faster pace The material is suitable for undergraduates or first year graduates who need only review Chapters 1 4 This book may be used for a one semester introductory course based on Chapters 1 4 and portions of the chapters on algorithm design hashing and graph algorithms and for a one semester advanced course that starts at Chapter 5 A year long course may be based on the entire book Sorting often perceived as rather technical is not treated as a separate chapter but is used in many examples including bubble sort merge sort tree sort heap sort quick sort and several parallel algorithms Also lower bounds on sorting by comparisons are included with the presentation of heaps in the context of lower bounds for comparison based structures Chapter 13 on parallel models of computation is something of a

mini book itself and a good way to end a course Although it is not clear what parallel

Algorithmic Graph Theory James A. McHugh,1990

Elements of Hypermedia Design: Techniques for Navigation & Visualization in Cyberspace Peter Gloor,2013-11-11 The hypermedia authoring process has been vividly described in a special issue of the Economist as a combination of writing a book a play a film and a radio or television show A hypermedia document combines all these elements and adds some of its own The author s first job is to structure and explain all of the information The author then must distill the information into brief descriptive nodes Each node has to contain a list of the ingredients and instructions on how the ingredients are mixed together to the greatest advantage The structure of the material provided is translated into an architectural metaphor of some kind much of the designer s work is the creation of this imaginary space Then the designers must chart the details of what to animate what to film who to interview and how to arrange the information in the space to be built Eco95a This book presents guidelines tools and techniques for prospective authors such that they can design better hypermedia documents and applications It surveys the different techniques used to organize search and structure information in a large information system It then describes the algorithms used to locate reorganize and link data to enable navigation and retrieval It looks in detail at the creation and presentation of certain types of visual information namely algorithm animations It introduces new mechanisms for editing audio and video data streams

Java Programming Tanushri Kaniyar,2025-01-03 This comprehensive guide is perfect for anyone aiming to master data structures and algorithms in Java Even without prior knowledge readers will find themselves equipped with essential skills by the end of the book We ensure that you ll not only read and understand these concepts but also apply them effectively in Java Focusing on different aspects of data structures and problem solving this book offers detailed explanations of all key concepts We emphasize practical aspects helping you improve gradually with time and practice This is not a book to skim through but one to work with actively The text begins with fundamental terms variable comparisons and types of analysis It then progresses to topics like recursion backtracking linked lists stacks queues and trees all with a practical approach Our goal is to cover all topics thoroughly using numerous examples to enhance understanding Each chapter includes an introduction to ensure a smooth flow of topics making the book engaging and interesting to work with We hope this book meets your highest expectations and provides a solid foundation in Java programming

Contemporary Methods in Graph Theory Rainer Bodendiek,1990

Topics in Algorithmic Graph Theory Lowell W. Beineke,Martin Charles Golumbic,Robin J. Wilson,2021-06-03 Algorithmic graph theory has been expanding at an extremely rapid rate since the middle of the twentieth century in parallel with the growth of computer science and the accompanying utilization of computers where efficient algorithms have been a prime goal This book presents material on developments on graph algorithms and related concepts that will be of value to both mathematicians and computer scientists at a level suitable for graduate students researchers and instructors The fifteen expository chapters written by acknowledged international experts on their subjects focus on the

application of algorithms to solve particular problems All chapters were carefully edited to enhance readability and standardize the chapter structure as well as the terminology and notation The editors provide basic background material in graph theory and a chapter written by the book's Academic Consultant Martin Charles Golumbic University of Haifa Israel provides background material on algorithms as connected with graph theory

Schaum's Outline of Graph Theory: Including Hundreds of Solved Problems V. K. Balakrishnan,1997-02-22 Confusing Textbooks Missed Lectures Not Enough Time Fortunately for you there's Schaum's Outlines More than 40 million students have trusted Schaum's to help them succeed in the classroom and on exams Schaum's is the key to faster learning and higher grades in every subject Each Outline presents all the essential course information in an easy to follow topic by topic format You also get hundreds of examples solved problems and practice exercises to test your skills This Schaum's Outline gives you Practice problems with full explanations that reinforce knowledge Coverage of the most up to date developments in your course field In depth review of practices and applications Fully compatible with your classroom text Schaum's highlights all the important facts you need to know Use Schaum's to shorten your study time and get your best test scores Schaum's Outlines Problem Solved

Proceedings of the 250th Anniversary Conference on Graph Theory Held at Indiana University-Purdue University at Fort Wayne, March 13-15, 1986 K. S. Bagga,1988 **Congressus Numerantium** ,2001 *Indian Journal of Chemistry* ,2003 **Journal of Information Science** ,2004 **Artificial Evolution** ,1999 **Combinatorial Optimization and Theoretical Computer Science** Vangelis Th. Paschos,2008-04-04 This volume is dedicated to the theme Combinatorial Optimization Theoretical Computer Science Interfaces and Perspectives and has two main objectives the first is to show that bringing together operational research and theoretical computer science can yield useful results for a range of applications while the second is to demonstrate the quality and range of research conducted by the LAMSADE in these areas

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