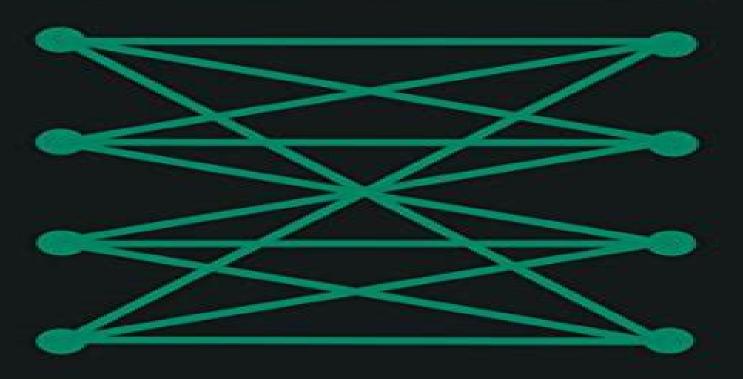
# ALGORITHMIC GRAPH THEORY

## ALAN GIBBONS



### **Algorithmic Graph Theory Algorithmic Graph Theory**

Workshop on algorithmic graph theory, Warwick, 23-25 March 2009

#### **Algorithmic Graph Theory Algorithmic Graph Theory:**

Algorithmic Graph Theory and Perfect Graphs Martin Charles Golumbic, 2014-05-10 Algorithmic Graph Theory and Perfect Graphs provides an introduction to graph theory through practical problems This book presents the mathematical and algorithmic properties of special classes of perfect graphs Organized into 12 chapters this book begins with an overview of the graph theoretic notions and the algorithmic design This text then examines the complexity analysis of computer algorithm and explains the differences between computability and computational complexity Other chapters consider the parameters and properties of a perfect graph and explore the class of perfect graphs known as comparability graph or transitively orientable graphs This book discusses as well the two characterizations of triangulated graphs one algorithmic and the other graph theoretic The final chapter deals with the method of performing Gaussian elimination on a sparse matrix wherein an arbitrary choice of pivots may result in the filling of some zero positions with nonzeros This book is a valuable resource for mathematicians and computer scientists 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** Applied and Algorithmic Graph Theory Gary Chartrand, Ortrud R. Oellermann, 1993 Designed as a James A. McHugh, 1990 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 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 Algorithmic Graph Theory Bill Jackson, 1994-01-01 Algorithmic graph theory and perfect graphs Martin C. Golumbic, 1988 **Graphs** K. Thulasiraman, M. N. S. Swamy, 1992-04-16 This adaptation of an earlier work by the authors is a graduate text and professional reference on the fundamentals of graph theory It covers the theory of graphs its applications to computer networks and the theory of graph algorithms Also includes Graphs, Algorithms, and Optimization William Kocay, Donald L. Kreher, 2016-11-03 exercises and an updated bibliography The second edition of this popular book presents the theory of graphs from an algorithmic viewpoint. The authors present the

graph theory in a rigorous but informal style and cover most of the main areas of graph theory. The ideas of surface topology are presented from an intuitive point of view. We have also included a discussion on linear programming that emphasizes problems in graph theory. The text is suitable for students in computer science or mathematics programs.

AGT 2009

Workshop on algorithmic graph theory, Warwick, 23-25 March 2009,2009

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