Algorithmic Graph Theory

Alan Gibbons

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Martin Charles Golumbic

Algorithmic Graph Theory:

   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 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 ,1988   **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 James A. McHugh,1990   *Algorithmic Graph Theory* Bill Jackson,1994-01-01   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   **Algorithmic graph theory and perfect graphs** Martin C. Golumbic,1988   **Graphs** K. Thulasiraman,M. N. S. Swamy,2011-03-29 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 exercises and an updated bibliography   **AGT 2009** Workshop on algorithmic graph theory, Warwick, 23-25 March 2009,2009   Graphs,

Algorithms, and Optimization William Kocay,Donald L. Kreher,2016-11-03 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 **Graph Theory** Nicos Christofides,1975 **Studies in Algorithmic Graph Theory** Maria Belianina,1999 New Results in Algorithmic Graph Theory Srinivasa R. Arikati,1993 Algorithmic Graph Theory and Perfect Graphs Martin Charles Golumbic,2004 This second edition continues to convey the message that intersection graph models are a necessary and important tool for solving real world problems **Handbook of Graph Theory** Jonathan L. Gross,Jay Yellen,2003-12-29 The Handbook of Graph Theory is the most comprehensive single source guide to graph theory ever published Best selling authors Jonathan Gross and Jay Yellen assembled an outstanding team of experts to contribute overviews of more than 50 of the most significant topics in graph theory including those related to algorithmic and optimization approach **Graph Theory for Programmers** Victor N. Kasyanov,Vladimir A. Evstigneev,2000-08-31 This introductory book treats algorithmic graph theory specifically for programmers It explores some key ideas and basic algorithms in this large and rapidly growing field and contains high level and language independent descriptions of methods and algorithms on trees the most important type of graphs in programming and informatics Readers are assumed to be familiar with the basics of graph theory and programming Audience This volume will be of interest to researchers and specialists in programming software engineering data structure and information retrieval and to mathematicians whose work involves algorithms combinatorics graph theory operations research and discrete optimization The book can also be recommended as a text for graduate courses in computer science electronics telecommunications and control engineering **Graph Algorithms** Shimon Even,2011-09-19 Shimon Even s Graph Algorithms published in 1979 was a seminal introductory book on algorithms read by everyone engaged in the field This thoroughly revised second edition with a foreword by Richard M Karp and notes by Andrew V Goldberg continues the exceptional presentation from the first edition and explains algorithms in a formal but simple language with a direct and intuitive presentation The book begins by covering basic material including graphs and shortest paths trees depth first search and breadth first search The main part of the book is devoted to network flows and applications of network flows and it ends with chapters on planar graphs and testing graph planarity *Algorithmic Graph Theory* Mathematisches Forschungsinstitut Oberwolfach,2006 *Algorithmic Graph Theory* James A. McHugh,1990

Unveiling the Energy of Verbal Artistry: An Emotional Sojourn through **Algorithmic Graph Theory**

In some sort of inundated with screens and the cacophony of instant conversation, the profound energy and psychological resonance of verbal beauty usually fade into obscurity, eclipsed by the continuous assault of sound and distractions. Yet, located within the musical pages of **Algorithmic Graph Theory**, a charming work of literary beauty that pulses with organic feelings, lies an memorable trip waiting to be embarked upon. Composed with a virtuoso wordsmith, this exciting opus books readers on an emotional odyssey, softly exposing the latent potential and profound influence stuck within the elaborate web of language. Within the heart-wrenching expanse of this evocative examination, we shall embark upon an introspective exploration of the book is key themes, dissect their charming writing design, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

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