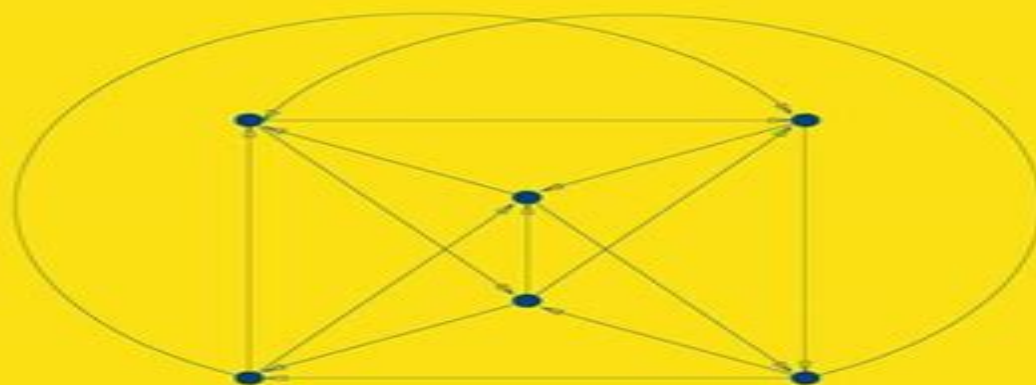


JØRGEN BANG-JENSEN • GREGORY GUTIN

Digraphs: Theory, Algorithms and Applications

Second Edition



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Alain Bretto



Digraphs Theory Algorithms And Applications Springer Monographs In Mathematics:

Digraphs Jorgen Bang-Jensen, Gregory Z. Gutin, 2013-06-29 Graph theory is a very popular area of discrete mathematics with not only numerous theoretical developments but also countless applications to practical problems. As a research area, graph theory is still relatively young but it is maturing rapidly with many deep results having been discovered over the last couple of decades. The theory of graphs can be roughly partitioned into two branches: the areas of undirected graphs and directed graphs (digraphs). Even though both areas have numerous important applications for various reasons, undirected graphs have been studied much more extensively than directed graphs. One of the reasons is that undirected graphs form in a sense a special class of directed graphs (symmetric digraphs) and hence problems that can be formulated for both directed and undirected graphs are often easier for the latter. Another reason is that unlike for the case of undirected graphs, for which there are several important books covering both classical and recent results, no previous book covers more than a small fraction of the results obtained on digraphs within the last 25 years. Typically, digraphs are considered only in one chapter or by a few elementary results scattered throughout the book. Despite all this, the theory of directed graphs has developed enormously within the last three decades. There is an extensive literature on digraphs: more than 3000 papers. Many of these papers contain not only interesting theoretical results but also important algorithms as well as applications. **Digraphs**

Jørgen Bang-Jensen, Gregory Z. Gutin, 2008-12-17 Substantially revised, reorganised and updated, the second edition now comprises eighteen chapters carefully arranged in a straightforward and logical manner with many new results and open problems. As well as covering the theoretical aspects of the subject with detailed proofs of many important results, the authors present a number of algorithms and whole chapters are devoted to topics such as branchings, feedback arc and vertex sets, connectivity augmentations, sparse subdigraphs with prescribed connectivity and also packing, covering and decompositions of digraphs. Throughout the book, there is a strong focus on applications which include quantum mechanics, bioinformatics, embedded computing and the travelling salesman problem. Detailed indices and topic-oriented chapters ease navigation and more than 650 exercises, 170 figures and 150 open problems are included to help immerse the reader in all aspects of the subject. **Graph Theory for Operations Research and Management: Applications in Industrial Engineering**

Farahani, Reza Zanjirani, Miandoabchi, Elnaz, 2012-12-31 While typically many approaches have been mainly mathematics-focused, graph theory has become a tool used by scientists, researchers and engineers in using modeling techniques to solve real-world problems. Graph Theory for Operations Research and Management Applications in Industrial Engineering presents traditional and contemporary applications of graph theory in the areas of industrial engineering, management science and applied operations research. This comprehensive collection of research introduces the useful basic concepts of graph theory in real-world applications. **Digraphs** Jorgen Bang-Jensen, Gregory Gutin, 2002 **Theory and Applications of Models of Computation** Jan Kratochvil, Angsheng Li, Jiri Fiala, Petr Kolman, 2010-05-20 This book constitutes the refereed proceedings of

the 7th International Conference on Theory and Applications of Models of Computation TAMC 2010 held in Prague Czech Republic in June 2010 The 35 revised full papers presented together with 5 contributions of special sessions as well as 2 plenary talks were carefully reviewed and selected from 76 submissions The papers address the three main themes of the conference which were computability complexity and algorithms and present current research in these fields with aspects to theoretical computer science algorithmic mathematics and applications to the physical sciences **Steinberg Groups for**

Jordan Pairs Ottmar Loos, Erhard Neher, 2020-01-10 The present monograph develops a unified theory of Steinberg groups independent of matrix representations based on the theory of Jordan pairs and the theory of 3 graded locally finite root systems The development of this approach occurs over six chapters progressing from groups with commutator relations and their Steinberg groups then on to Jordan pairs 3 graded locally finite root systems and groups associated with Jordan pairs graded by root systems before exploring the volume's main focus the definition of the Steinberg group of a root graded Jordan pair by a small set of relations and its central closedness Several original concepts such as the notions of Jordan graphs and Weyl elements provide readers with the necessary tools from combinatorics and group theory Steinberg Groups for Jordan Pairs is ideal for PhD students and researchers in the fields of elementary groups Steinberg groups Jordan algebras and Jordan pairs By adopting a unified approach anybody interested in this area who seeks an alternative to case by case arguments and explicit matrix calculations will find this book essential Relational Methods in Computer Science

Wendy MacCaull, Michael Winter, Ivo Düntsch, 2006-04-18 This volume is the post conference proceedings of the 8th International Seminar on Relational Methods in Computer Science RelMiCS 8 held in conjunction with the 3rd International Workshop on Applications of Kleene Algebra and a COST Action 274 TARSKI Workshop This combined meeting took place in St Catharines Ontario Canada from February 22 to February 26 2005 **The Discrete Math Workbook** Sergei

Kurgalin, Sergei Borzunov, 2018-07-31 This practically oriented textbook presents an accessible introduction to discrete mathematics through a substantial collection of classroom tested exercises Each chapter opens with concise coverage of the theory underlying the topic reviewing the basic concepts and establishing the terminology as well as providing the key formulae and instructions on their use This is then followed by a detailed account of the most common problems in the area before the reader is invited to practice solving such problems for themselves through a varied series of questions and assignments Topics and features provides an extensive set of exercises and examples of varying levels of complexity suitable for both laboratory practical training and self study offers detailed solutions to many problems applying commonly used methods and computational schemes introduces the fundamentals of mathematical logic the theory of algorithms Boolean algebra graph theory sets relations functions and combinatorics presents more advanced material on the design and analysis of algorithms including asymptotic analysis and parallel algorithms includes reference lists of trigonometric and finite summation formulae in an appendix together with basic rules for differential and integral calculus This hands on study guide

is designed to address the core needs of undergraduate students training in computer science informatics and electronic engineering emphasizing the skills required to develop and implement an algorithm in a specific programming language

Algorithms and Computation Takeshi Tokuyama, 2007-12-06 This book constitutes the refereed proceedings of the 18th International Symposium on Algorithms and Computation ISAAC 2007 held in Sendai Japan in December 2007 The 77 revised full papers presented together with two invited talks were carefully reviewed and selected from 220 submissions The papers included topical sections on graph algorithms computational geometry complexity graph drawing distributed algorithms optimization data structure and game theory

Genome-Scale Algorithm Design Veli Mäkinen, Djamel Belazzougui, Fabio Cunial, Alexandru I. Tomescu, 2023-10-12 The fundamental algorithms and data structures that power standard bioscience workflows with rigorous computer science formulations

Hypergraph Theory Alain Bretto, 2013-04-17 This book provides an introduction to hypergraphs its aim being to overcome the lack of recent manuscripts on this theory In the literature hypergraphs have many other names such as set systems and families of sets This work presents the theory of hypergraphs in its most original aspects while also introducing and assessing the latest concepts on hypergraphs The variety of topics their originality and novelty are intended to help readers better understand the hypergraphs in all their diversity in order to perceive their value and power as mathematical tools This book will be a great asset to upper level undergraduate and graduate students in computer science and mathematics It has been the subject of an annual Master s course for many years making it also ideally suited to Master s students in computer science mathematics bioinformatics engineering chemistry and many other fields It will also benefit scientists engineers and anyone else who wants to understand hypergraphs theory

Encyclopedia of Machine Learning Claude Sammut, Geoffrey I. Webb, 2011-03-28 This comprehensive encyclopedia in A Z format provides easy access to relevant information for those seeking entry into any aspect within the broad field of Machine Learning Most of the entries in this preeminent work include useful literature references

Classes of Directed Graphs Jørgen Bang-Jensen, Gregory Gutin, 2018-06-18 This edited volume offers a detailed account of the theory of directed graphs from the perspective of important classes of digraphs with each chapter written by experts on the topic Outlining fundamental discoveries and new results obtained over recent years this book provides a comprehensive overview of the latest research in the field It covers core new results on each of the classes discussed including chapters on tournaments planar digraphs acyclic digraphs Euler digraphs graph products directed width parameters and algorithms Detailed indices ease navigation while more than 120 open problems and conjectures ensure that readers are immersed in all aspects of the field *Classes of Directed Graphs* provides a valuable reference for graduate students and researchers in computer science mathematics and operations research As digraphs are an important modelling tool in other areas of research this book will also be a useful resource to researchers working in bioinformatics

chemoinformatics sociology physics medicine etc

Proceedings of The Eighth International Conference on

Bio-Inspired Computing: Theories and Applications (BIC-TA), 2013 Zhixiang Yin, Linqiang Pan, Xianwen

Fang, 2013-10-22 International Conference on Bio Inspired Computing Theories and Applications BIC TA is one of the flagship conferences on Bio Computing bringing together the world's leading scientists from different areas of Natural Computing. Since 2006 the conferences have taken place at Wuhan 2006 Zhengzhou 2007 Adelaide 2008 Beijing 2009 Liverpool Changsha 2010 Malaysia 2011 and India 2012. Following the successes of previous events the 8th conference is organized and hosted by Anhui University of Science and Technology in China. This conference aims to provide a high level international forum that researchers with different backgrounds and who are working in the related areas can use to present their latest results and exchange ideas. Additionally the growing trend in Emergent Systems has resulted in the inclusion of two other closely related fields in the BIC TA 2013 event namely Complex Systems and Computational Neuroscience. These proceedings are intended for researchers in the fields of Membrane Computing Evolutionary Computing and Genetic Algorithms DNA and Molecular Computing Biological Computing Swarm Intelligence Autonomy Oriented Computing Cellular and Molecular Automata Complex Systems etc. Professor Zhixiang Yin is the Dean of the School of Science Anhui University of Science Technology China. Professor Linqiang Pan is the head of the research group of Natural Computing at Huazhong University of Science and Technology Wuhan China. Professor Xianwen Fang also works at the Anhui University of Science Technology.

Automata, Languages and Programming Samson Abramsky, Cyril Gavoille, Claude Kirchner, Friedhelm Meyer auf der Heide, Paul Spirakis, 2010-06-30. The two volume set LNCS 6198 and LNCS 6199 constitutes the refereed proceedings of the 37th International Colloquium on Automata Languages and Programming ICALP 2010 held in Bordeaux France in July 2010. The 106 revised full papers 60 papers for track A 30 for track B and 16 for track C presented together with 6 invited talks were carefully reviewed and selected from a total of 389 submissions. The papers are grouped in three major tracks on algorithms complexity and games on logic semantics automata and theory of programming as well as on foundations of networked computation models algorithms and information management. LNCS 6198 contains 60 contributions of track A selected from 222 submissions as well as 2 invited talks. **Lecture Notes on Graph Theory** Sudev Naduvath, 2017-12-08.

The book is based on the syllabus of Computer Science and Engineering Programme under APJ Abdul Kalam Technological University Kerala. On Sets and Graphs Eugenio G. Omodeo, Alberto Policriti, Alexandru I. Tomescu, 2017-05-11.

This treatise presents an integrated perspective on the interplay of set theory and graph theory providing an extensive selection of examples that highlight how methods from one theory can be used to better solve problems originated in the other. Features explores the interrelationships between sets and graphs and their applications to finite combinatorics introduces the fundamental graph theoretical notions from the standpoint of both set theory and dyadic logic and presents a discussion on set universes explains how sets can conveniently model graphs discussing set graphs and set theoretic representations of claw free graphs investigates when it is convenient to represent sets by graphs covering counting and encoding problems the

random generation of sets and the analysis of infinite sets presents excerpts of formal proofs concerning graphs whose correctness was verified by means of an automated proof assistant contains numerous exercises examples definitions problems and insight panels *Advances in Information and Communication* Kohei Arai,Supriya Kapoor,Rahul Bhatia,2020-02-13 This book presents high quality research on the concepts and developments in the field of information and communication technologies and their applications It features 134 rigorously selected papers including 10 poster papers from the Future of Information and Communication Conference 2020 FICC 2020 held in San Francisco USA from March 5 to 6 2020 addressing state of the art intelligent methods and techniques for solving real world problems along with a vision of future research Discussing various aspects of communication data science ambient intelligence networking computing security and Internet of Things the book offers researchers scientists industrial engineers and students valuable insights into the current research and next generation information science and communication technologies *Combinatorial Optimization* Jon Lee,Giovanni Rinaldi,A. Ridha Mahjoub,2018-07-17 This book constitutes the thoroughly refereed post conference proceedings of the 5th International Symposium on Combinatorial Optimization ISCO 2018 held in Marrakesh Marocco in April 2018 The 35 revised full papers presented in this book were carefully reviewed and selected from 75 submissions The symposium aims to bring together researchers from all the communities related to combinatorial optimization including algorithms and complexity mathematical programming and operations research **Algorithms and Complexity** Dimitris Fotakis,Aris Pagourtzis,Vangelis Th. Paschos,2017-04-12 This book constitutes the refereed conference proceedings of the 10th International Conference on Algorithms and Complexity CIAC 2017 held in Athens Greece in May 2017 The 36 revised full papers were carefully reviewed and selected from 90 submissions and are presented together with 3 abstracts of invited talks and a paper to the 70th birthday of Stathis Zachos The papers present original research in the theory and applications of algorithms and computational complexity

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