

Stasys Jukna

Extremal Combinatorics

With Applications in Computer Science
Second Edition



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Extremal Combinatorics With Applications In Computer Science

Irit Dinur, Klaus Jansen, Seffi Naor, José Rolim



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Extremal Combinatorics Stasys Jukna, 2011-08-31 This book is a concise self contained up to date introduction to extremal combinatorics for nonspecialists There is a strong emphasis on theorems with particularly elegant and informative proofs they may be called gems of the theory The author presents a wide spectrum of the most powerful combinatorial tools together with impressive applications in computer science methods of extremal set theory the linear algebra method the probabilistic method and fragments of Ramsey theory No special knowledge in combinatorics or computer science is assumed the text is self contained and the proofs can be enjoyed by undergraduate students in mathematics and computer science Over 300 exercises of varying difficulty and hints to their solution complete the text This second edition has been extended with substantial new material and has been revised and updated throughout It offers three new chapters on expander graphs and eigenvalues the polynomial method and error correcting codes Most of the remaining chapters also include new material such as the Kruskal Katona theorem on shadows the Lov sz Stein theorem on coverings large cliques in dense graphs without induced 4 cycles a new lower bounds argument for monotone formulas Dvir s solution of the finite field Kakeya conjecture Moser s algorithmic version of the Lov sz Local Lemma Sch nung s algorithm for 3 SAT the Szemer di Trotter theorem on the number of point line incidences surprising applications of expander graphs in extremal number theory and some other new results

Extremal Combinatorics Stasys Jukna, 2001-06-12 This is a concise up to date introduction to extremal combinatorics for non specialists Strong emphasis is made on theorems with particularly elegant and informative proofs which may be called the gems of the theory A wide spectrum of the most powerful combinatorial tools is presented including methods of extremal set theory the linear algebra method the probabilistic method and fragments of Ramsey theory A thorough discussion of recent applications to computer science illustrates the inherent usefulness of these methods

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Stasys Jukna, 2001

Computing and Combinatorics Dachuan Xu, Donglei Du, Dingzhu Du, 2015-06-23 This book constitutes the refereed proceedings of the 21st International Conference on Computing and Combinatorics COCOON 2015 held in Beijing China in August 2015 The 49 revised full papers and 11 shorter papers presented were carefully reviewed and selected from various submissions The papers cover various topics including algorithms and data structures algorithmic game theory approximation algorithms and online algorithms automata languages logic and computability complexity theory computational learning theory cryptography reliability and security database theory computational biology and bioinformatics computational algebra geometry number theory graph drawing and information visualization graph theory communication networks optimization and parallel and distributed computing

Automata, Languages and Programming Luca Aceto, Ivan Damgaard, Leslie Ann Goldberg, Magnus M. Halldorsson, Anna Ingolfsdottir, Igor

Walukiewicz, 2008-06-24 Annotation The two volume set LNCS 5125 and LNCS 5126 constitutes the refereed proceedings of

the 35th International Colloquium on Automata Languages and Programming ICALP 2008 held in Reykjavik Iceland in July 2008 The 126 revised full papers presented together with 4 invited lectures were carefully reviewed and selected from a total of 407 submissions The papers are grouped in three major tracks on algorithms automata complexity and games on logic semantics and theory of programming and on security and cryptography foundations LNCS 5126 contains 56 contributions of track B and track C selected from 208 submissions and 2 invited lectures The papers for track B are organized in topical sections on bounds distributed computation real time and probabilistic systems logic and complexity words and trees nonstandard models of computation reasoning about computation and verification The papers of track C cover topics in security and cryptography such as theory secure computation two party protocols and zero knowledge encryption with special properties quantum cryptography various types of hashing as well as public key cryptography and authentication

Theory of Semi-Feasible Algorithms Lane A. Hemaspaandra, Leen Torenvliet, 2013-04-17 An Invitation to the Dance It is an underappreciated fact that sets may have various types of complexity and not all types are in harmony with each other The primary goal of this book is to unify and make more widely accessible a vibrant stream of research the theory of semi feasible computation that perfectly showcases the richness of and contrasts between the central types of complexity The semi feasible sets which are most commonly referred to as the P selective sets are those sets L for which there is a deterministic polynomial time algorithm that when given as input any two strings of which at least one belongs to L will output one of them that is in L The reason we say that the semi feasible sets showcase the contrasts among types of complexity is that it is well known that many semi feasible sets have no recursive algorithms thus their time complexity cannot be upper bounded by standard time complexity classes yet all semi feasible sets are simple in a wide range of other natural senses In particular the semi feasible sets have small circuits they are in the extended low hierarchy and they cannot be NP complete unless $P = NP$ The semi feasible sets are fascinating for many reasons First as mentioned above they showcase the fact that mere deterministic time complexity is not the only potential type of complexity in the world of computation

Theoretical Aspects of Local Search Wil Michiels, Emile Aarts, Jan Korst, 2007-01-17 Local search has been applied successfully to a diverse collection of optimization problems It is appreciated for its basic conceptual foundation its general applicability and its power to serve as a source for new search paradigms The typical characteristics of combinatorial optimization problems to which local search can be applied its relation to complexity theory and the combination with randomized search features have led to a wealth of interesting theoretical results However these results are scattered throughout the literature This is the first book that presents a large collection of theoretical results in a consistent manner thus providing the reader with a coherent overview of the achievements obtained so far but also serving as a source of inspiration for the development of novel results in the challenging field of local search

Algorithms and Computation Khaled Elbassioni, Kazuhisa Makino, 2015-12-07 This book constitutes the refereed proceedings of the 26th International Symposium on Algorithms and

Computation ISAAC 2015 held in Nagoya Japan in December 2015 The 65 revised full papers presented together with 3 invited talks were carefully reviewed and selected from 180 submissions for inclusion in the book The focus of the volume is on the following topics computational geometry data structures combinatorial optimization and approximation algorithms randomized algorithms graph algorithms and FPT computational complexity graph drawing and planar graphs online and streaming algorithms and string and DNA algorithms

Next Generation Society Technological and Legal Issues Alexander B. Sideridis, Charalampos Z. Patrikakis, 2010-01-30 Recent developments in information and communication technology ICT have paved the way for a world of advanced communication intelligent information processing and ubiquitous access to information and services The ability to work communicate interact conduct business and enjoy digital entertainment virtually anywhere is rapidly becoming commonplace due to a multitude of small devices ranging from mobile phones and PDAs to RFID tags and wearable computers The increasing number of connected devices and the proliferation of networks provide no indication of a slowdown in this tendency On the negative side misuse of this same technology entails serious risks in various aspects such as privacy violations advanced electronic crime cyber terrorism and even enlargement of the digital divide In extreme cases it may even threaten basic principles and human rights The aforementioned issues raise an important question Is our society ready to adopt the technological advances in ubiquitous networking next generation Internet and pervasive computing To what extent will it manage to evolve promptly and efficiently to a next generation society adopting the forthcoming ICT challenges The Third International ICST Conference on e Democracy held in Athens Greece during September 23-25 2009 focused on the above issues Through a comprehensive list of thematic areas under the title Next Generation Society Technological and Legal issues the 2009 conference provided comprehensive reports and stimulated discussions on the technological ethical legal and political challenges ahead of us

Knowledge Discovery in Inductive Databases Francesco Bonchi, Jean-Francois Boulicaut, 2006-03-05 This book presents the thoroughly refereed joint postproceedings of the 4th International Workshop on Knowledge Discovery in Inductive Databases October 2005 20 revised full papers presented together with 2 are reproduced here Bringing together the fields of databases machine learning and data mining the papers address various current topics in knowledge discovery and data mining in the framework of inductive databases such as constraint based mining database technology and inductive querying

Mastering Discrete Mathematics Gautami Devar, 2025-02-20 Mastering Discrete Mathematics is a comprehensive and accessible resource designed to provide readers with a thorough understanding of the fundamental concepts techniques and applications of discrete mathematics Written for students educators researchers and practitioners we offer a detailed overview of discrete mathematics a field that deals with countable distinct objects and structures We cover a wide range of topics including sets logic proof techniques combinatorics graph theory recurrence relations and generating functions Our clear and concise language makes complex mathematical concepts accessible to readers with varying levels of mathematical background Each concept is illustrated with

examples and applications to demonstrate its relevance and practical significance in various domains Emphasizing the practical applications of discrete mathematics we explore its use in computer science cryptography optimization network theory and other scientific disciplines Each chapter includes exercises and problems to reinforce learning test understanding and encourage further exploration of the material Additional resources including supplementary materials interactive exercises and solutions to selected problems are available online to complement the book and facilitate self study and review Whether you are a student looking to gain a solid foundation in discrete mathematics an educator seeking to enhance your teaching materials or a practitioner interested in applying discrete mathematics techniques to real world problems Mastering Discrete Mathematics offers valuable insights and resources to support your learning and exploration of this fascinating field

Approximation, Randomization, and Combinatorial Optimization. Algorithms and Techniques Irit Dinur,Klaus Jansen,Seffi Naor,José Rolim,2009-08-21 RANDOM is concerned with applications of randomness to computational and combinatorial problems and was the 13th workshop in the series following Bologna 1997 Barcelona 1998 Berkeley 1999 Geneva 2000 Berkeley 2001 Harvard 2002 Prin ton 2003 Cambridge 2004 Berkeley 2005 Barcelona 2006 Princeton 2007 and Boston 2008

Handbook of Mathematical Induction David S. Gunderson,2014-01-09 Handbook of Mathematical Induction Theory and Applications shows how to find and write proofs via mathematical induction This comprehensive book covers the theory the structure of the written proof all standard exercises and hundreds of application examples from nearly every area of mathematics In the first part of the book the author discuss **Theorems of the 21st Century** Bogdan

Grechuk,2019-06-15 This book consists of short descriptions of 106 mathematical theorems which belong to the great achievements of 21st century mathematics but require relatively little mathematical background to understand their formulation and appreciate their importance The selected theorems of this volume chosen from the famous Annals of Mathematics journal cover a broad range of topics from across mathematics Each theorem description is essentially self contained can be read independently of the others and requires as little preliminary knowledge as possible Although the sections often start with an informal discussion and toy examples all the necessary definitions are included and each description culminates in the precise formulation of the corresponding theorem Filling the gap between surveys written for mathematicians and popular mathematics this book is intended for readers with a keen interest in contemporary mathematics

Algorithms and Complexity Vangelis Th. Paschos,Peter Widmayer,2015-05-15 This book constitutes the refereed conference proceedings of the 9th International Conference on Algorithms and Complexity CIAC 2015 held in Paris France in May 2015 The 30 revised full papers presented were carefully reviewed and selected from 93 submissions and are presented together with 2 invited papers The papers present original research in the theory and applications of algorithms and computational complexity

Structural Information and Communication Complexity Ratislav Královic,Ondrej Sykora,2004-06-14 This book constitutes the refereed proceedings of the 11th International Colloquium on Structural

Information and Communication Complexity SIROCCO 2004 held in Smolenice Castle Slovakia in June 2004 The 26 revised full papers presented were carefully reviewed and selected from 56 submissions Among the topics addressed are WDM networks optical networks ad hoc networking computational graph theory graph algorithms radio networks routing shortest path problems searching labelling distributed algorithms communication networks approximation algorithms wireless networks scheduling NP completeness Byzantine environments Fundamentals of Computation Theory Leszek Gąsieniec, Frank Wolter, 2013-07-22 This book constitutes the refereed proceedings of the 19th International Symposium on Fundamentals of Computation Theory FCT 2013 held in Liverpool UK in August 2013 The 29 papers 26 full papers and 3 invited papers were carefully reviewed and selected from 58 submissions The papers cover the following topics algorithms formal methods and emerging fields *Internet and Network Economics* Stefano Leonardi, 2009-12-08 This book constitutes the refereed proceedings of the 5th International Workshop on Internet and Network Economics WINE 2009 held in Rome Italy in December 2009 The 34 regular and 29 short revised full papers presented together with 3 invited talks were carefully reviewed and selected from 142 submissions The papers address various topics in theoretical computer science networking and security economics mathematics sociology and management sciences devoted to the analysis of problems arising in the internet and the worldwide Web such as auction algorithms computational advertising general and majority equilibrium coalitions collective action economics aspects of security and privacy in distributed and network computing algorithmic design and game theory information economics network games price dynamics and social networks **Journey into Discrete Mathematics** Owen D. Byer, Deirdre L. Smeltzer, Kenneth L. Wantz, 2018-11-13 Journey into Discrete Mathematics is designed for use in a first course in mathematical abstraction for early career undergraduate mathematics majors The important ideas of discrete mathematics are included logic sets proof writing relations counting number theory and graph theory in a manner that promotes development of a mathematical mindset and prepares students for further study While the treatment is designed to prepare the student reader for the mathematics major the book remains attractive and appealing to students of computer science and other problem solving disciplines The exposition is exquisite and engaging and features detailed descriptions of the thought processes that one might follow to attack the problems of mathematics The problems are appealing and vary widely in depth and difficulty Careful design of the book helps the student reader learn to think like a mathematician through the exposition and the problems provided Several of the core topics including counting number theory and graph theory are visited twice once in an introductory manner and then again in a later chapter with more advanced concepts and with a deeper perspective Owen D Byer and Deirdre L Smeltzer are both Professors of Mathematics at Eastern Mennonite University Kenneth L Wantz is Professor of Mathematics at Regent University Collectively the authors have specialized expertise and research publications ranging widely over discrete mathematics and have over fifty semesters of combined experience in teaching this subject Algorithm Theory - SWAT 2010 Haim Kaplan, 2010-06-10 This book

constitutes the proceedings of the 12th International Scandinavian Workshop on Algorithm Theory held in Bergen Norway in June 2010

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