

Fedor V. Fomin
Dieter Kratsch

Exact Exponential Algorithms

 Springer

Exact Exponential Algorithms Texts In Theoretical Computer Science An Eatcs Series

Jianxin Wang, Chee Yap



Exact Exponential Algorithms Texts In Theoretical Computer Science An Eatcs Series:

Exact Exponential Algorithms Fedor V. Fomin, Dieter Kratsch, 2010-10-26 For a long time computer scientists have distinguished between fast and slow algorithms. Fast or good algorithms are the algorithms that run in polynomial time which means that the number of steps required for the algorithm to solve a problem is bounded by some polynomial in the length of the input. All other algorithms are slow or bad. The running time of slow algorithms is usually exponential. This book is about bad algorithms. There are several reasons why we are interested in exponential time algorithms. Most of us believe that there are many natural problems which cannot be solved by polynomial time algorithms. The most famous and oldest family of hard problems is the family of NP complete problems. Most likely there are no polynomial time algorithms solving these hard problems and in the worst case scenario the exponential running time is unavoidable. Every combinatorial problem is solvable in finite time by enumerating all possible solutions i.e. by brute force search. But is brute force search always unavoidable? Definitely not. Already in the nineteen sixties and seventies it was known that some NP complete problems can be solved significantly faster than by brute force search. Three classic examples are the following algorithms for the TRAVELLING SALESMAN problem, MAXIMUM INDEPENDENT SET and COLORING. *Parameterized and Exact Computation* Dániel Marx, Peter Rossmanith, 2012-03-09 This book constitutes the thoroughly refereed post conference proceedings of the 6th International Symposium on Parameterized and Exact Computation IPEC 2011 in Saarbrücken, Germany in September 2011. The 21 revised full papers presented were carefully reviewed and selected from 40 submissions. The topics addressed cover research in all aspects of parameterized and exact computation and complexity including but not limited to new techniques for the design and analysis of parameterized and exact algorithms, fixed parameter tractability results, parameterized complexity theory, relationship between parameterized complexity and traditional complexity classifications, applications of parameterized and exact computation and implementation issues of parameterized and exact algorithms. **Algorithmic Aspects in Information and Management** Smita Ghosh, Zhao Zhang, 2024-09-18 This two volume set LNCS 15179/15180 constitutes the refereed proceedings of the 18th International Conference on Algorithmic Aspects in Information and Management AAIM 2024 which took place virtually during September 21-23, 2024. The 45 full papers presented in these two volumes were carefully reviewed and selected from 76 submissions. The papers are organized in the following topical sections: Part I: Optimization and applications, submodularity, management and others; Part II: Graphs and networks, quantum and others. Algorithmic Aspects of Cloud Computing Katerina Doka, Eirini Eleni Tsiropoulou, 2025-06-16 This book constitutes the refereed proceedings of the 9th International Symposium on Algorithmic Aspects of Cloud Computing ALGOCLOUD 2024 held in London, UK during September 2024. The 9 full papers and 1 short paper presented here were carefully reviewed and selected from 18 submissions. They focus on various topics in the emerging area of algorithmic aspects of computing and data management in modern cloud-based systems. *Algorithms -*

ESA 2014 Andreas S. Schulz,Dorothea Wagner,2014-08-16 This book constitutes the refereed proceedings of the 22st Annual European Symposium on Algorithms ESA 2014 held in Wroc aw Poland in September 2014 as part of ALGO 2014 The 69 revised full papers presented were carefully reviewed and selected from 269 initial submissions 57 out of 221 in Track A Design and Analysis and 12 out of 48 in Track B Engineering and Applications The papers present original research in the areas of design and mathematical analysis of algorithms engineering experimental analysis and real world applications of algorithms and data structures

Handbook of the Tutte Polynomial and Related Topics Joanna A. Ellis-Monaghan,Iain Moffatt,2022-07-06 The Tutte Polynomial touches on nearly every area of combinatorics as well as many other fields including statistical mechanics coding theory and DNA sequencing It is one of the most studied graph polynomials Handbook of the Tutte Polynomial and Related Topics is the first handbook published on the Tutte Polynomial It consists of thirty four chapters written by experts in the field which collectively offer a concise overview of the polynomial s many properties and applications Each chapter covers a different aspect of the Tutte polynomial and contains the central results and references for its topic The chapters are organized into six parts Part I describes the fundamental properties of the Tutte polynomial providing an overview of the Tutte polynomial and the necessary background for the rest of the handbook Part II is concerned with questions of computation complexity and approximation for the Tutte polynomial Part III covers a selection of related graph polynomials Part IV discusses a range of applications of the Tutte polynomial to mathematics physics and biology Part V includes various extensions and generalizations of the Tutte polynomial and Part VI provides a history of the development of the Tutte polynomial Features Written in an accessible style for non experts yet extensive enough for experts Serves as a comprehensive and accessible introduction to the theory of graph polynomials for researchers in mathematics physics and computer science Provides an extensive reference volume for the evaluations theorems and properties of the Tutte polynomial and related graph matroid and knot invariants Offers broad coverage touching on the wide range of applications of the Tutte polynomial and its various specializations

Frontiers in Algorithmics Jianxin Wang,Chee Yap,2015-06-26 This book constitutes the proceedings of the 9th International Workshop on Frontiers in Algorithmics FAW 2015 held in Guilin China in July 2015 The 28 papers presented in this volume were carefully reviewed and selected from 65 submissions They deal with graph algorithms approximation algorithms combinatorial optimization parameterized algorithms and online algorithms

Principles and Practice of Constraint Programming Helmut Simonis,2020-09-06 This book constitutes the proceedings of the 26th International Conference on Principles and Practice of Constraint Programming CP 2020 held in Louvain la Neuve Belgium in September 2020 The conference was held virtually due to the COVID 19 pandemic The 55 full papers presented in this volume were carefully reviewed and selected from 122 submissions They deal with all aspects of computing with constraints including theory algorithms environments languages models systems and applications such as decision making resource allocation scheduling configuration and planning The papers were organized according to

the following topics tracks technical track application track and CP and data science and machine learning

Algorithmics for Hard Problems Juraj Hromkovič, 2013-03-14 Algorithmic design especially for hard problems is more essential for success in solving them than any standard improvement of current computer technologies. Because of this the design of algorithms for solving hard problems is the core of current algorithmic research from the theoretical point of view as well as from the practical point of view. There are many general text books on algorithmics and several specialized books devoted to particular approaches such as local search randomization approximation algorithms or heuristics. But there is no textbook that focuses on the design of algorithms for hard computing tasks and that systematically explains combines and compares the main possibilities for attacking hard algorithmic problems. As this topic is fundamental for computer science this book tries to close this gap. Another motivation and probably the main reason for writing this book is connected to education. The considered area has developed very dynamically in recent years and the research on this topic discovered several profound results new concepts and new methods. Some of the achieved contributions are so fundamental that one can speak about paradigms which should be included in the education of every computer science student. Unfortunately this is very far from reality. This is because these paradigms are not sufficiently known in the computer science community and so they are insufficiently communicated to students and practitioners.

Algorithmics for Hard Problems Juraj Hromkovič, 2001-05-22 An introduction to the methods of designing algorithms for hard computing tasks concentrating mainly on approximate randomized and heuristic algorithms and on the theoretical and experimental comparison of these approaches according to the requirements of the practice. This is the first book to systematically explain and compare all the main possibilities of attacking hard computing problems. It also closes the gap between theory and practice by providing at once a graduate textbook and a handbook for practitioners dealing with hard computing problems.

Simulation Algorithms for Computational Systems Biology Luca Marchetti, Corrado Priami, Vo Hong Thanh, 2017-09-27 This book explains the state of the art algorithms used to simulate biological dynamics. Each technique is theoretically introduced and applied to a set of modeling cases. Starting from basic simulation algorithms the book also introduces more advanced techniques that support delays diffusion in space or that are based on hybrid simulation strategies. This is a valuable self contained resource for graduate students and practitioners in computer science biology and bioinformatics. An appendix covers the mathematical background and the authors include further reading sections in each chapter.

Computable Analysis Klaus Weihrauch, 2012-12-06 Is the exponential function computable? Are union and intersection of closed subsets of the real plane computable? Are differentiation and integration computable operators? Is zero finding for complex polynomials computable? Is the Mandelbrot set decidable? And in case of computability what is the computational complexity? Computable analysis supplies exact definitions for these and many other similar questions and tries to solve them. Merging fundamental concepts of analysis and recursion theory to a new exciting theory this book provides a solid basis for studying various aspects of computability and complexity in analysis. It is the result

of an introductory course given for several years and is written in a style suitable for graduate level and senior students in computer science and mathematics Many examples illustrate the new concepts while numerous exercises of varying difficulty extend the material and stimulate readers to work actively on the text **Kernelization** Fedor V. Fomin, Daniel

Lokshtanov, Saket Saurabh, Meirav Zehavi, 2019-01-10 Preprocessing or data reduction is a standard technique for simplifying and speeding up computation Written by a team of experts in the field this book introduces a rapidly developing area of preprocessing analysis known as kernelization The authors provide an overview of basic methods and important results with accessible explanations of the most recent advances in the area such as meta kernelization representative sets polynomial lower bounds and lossy kernelization The text is divided into four parts which cover the different theoretical aspects of the area upper bounds meta theorems lower bounds and beyond kernelization The methods are demonstrated through extensive examples using a single data set Written to be self contained the book only requires a basic background in algorithmics and will be of use to professionals researchers and graduate students in theoretical computer science optimization combinatorics and related fields *Algorithms and Complexity* Bozzano G Luisa, 2014-06-28 This first part presents chapters on models of computation complexity theory data structures and efficient computation in many recognized sub disciplines of Theoretical Computer Science

Advances in Algorithms, Languages, and Complexity Ding-Zhu Du, Ker-I Ko, 2011-10-12 This book contains a collection of survey papers in the areas of algorithms languages and complexity the three areas in which Professor Ronald V Book has made significant contributions As a former student and a co author who have been influenced by him directly we would like to dedicate this book to Professor Ronald V Book to honor and celebrate his sixtieth birthday Professor Book initiated his brilliant academic career in 1958 graduating from Grinnell College with a Bachelor of Arts degree He obtained a Master of Arts in Teaching degree in 1960 and a Master of Arts degree in 1964 both from Wesleyan University and a Doctor of Philosophy degree from Harvard University in 1969 under the guidance of Professor Sheila A Greibach Professor Book s research in discrete mathematics and theoretical computer science is reflected in more than 150 scientific publications These works have made a strong impact on the development of several areas of theoretical computer science A more detailed summary of his scientific research appears in this volume separately **Design and Analysis of**

Approximation Algorithms Ding-Zhu Du, Ker-I Ko, Xiaodong Hu, 2011-11-18 This book is intended to be used as a textbook for graduate students studying theoretical computer science It can also be used as a reference book for researchers in the area of design and analysis of approximation algorithms Design and Analysis of Approximation Algorithms is a graduate course in theoretical computer science taught widely in the universities both in the United States and abroad There are however very few textbooks available for this course Among those available in the market most books follow a problem oriented format that is they collected many important combinatorial optimization problems and their approximation algorithms and organized them based on the types or applications of problems such as geometric type problems algebraic

type problems etc Such arrangement of materials is perhaps convenient for a researcher to look for the problems and algorithms related to his her work but is difficult for a student to capture the ideas underlying the various algorithms In the new book proposed here we follow a more structured technique oriented presentation We organize approximation algorithms into different chapters based on the design techniques for the algorithms so that the reader can study approximation algorithms of the same nature together It helps the reader to better understand the design and analysis techniques for approximation algorithms and also helps the teacher to present the ideas and techniques of approximation algorithms in a more unified way

Algorithms and Complexity Bozzano G Luisa,1990-09-26 This first part presents chapters on models of computation complexity theory data structures and efficient computation in many recognized sub disciplines of Theoretical Computer Science

Algorithms for Computer Algebra Keith O. Geddes,Stephen R. Czapor,George Labahn,2007-06-30 Algorithms for Computer Algebra is the first comprehensive textbook to be published on the topic of computational symbolic mathematics The book first develops the foundational material from modern algebra that is required for subsequent topics It then presents a thorough development of modern computational algorithms for such problems as multivariate polynomial arithmetic and greatest common divisor calculations factorization of multivariate polynomials symbolic solution of linear and polynomial systems of equations and analytic integration of elementary functions Numerous examples are integrated into the text as an aid to understanding the mathematical development The algorithms developed for each topic are presented in a Pascal like computer language An extensive set of exercises is presented at the end of each chapter Algorithms for Computer Algebra is suitable for use as a textbook for a course on algebraic algorithms at the third year fourth year or graduate level Although the mathematical development uses concepts from modern algebra the book is self contained in the sense that a one term undergraduate course introducing students to rings and fields is the only prerequisite assumed The book also serves well as a supplementary textbook for a traditional modern algebra course by presenting concrete applications to motivate the understanding of the theory of rings and fields

Algorithms for Random Generation and Counting: A Markov Chain Approach A. Sinclair,2012-11-01 This monograph is a slightly revised version of my PhD thesis 86 completed in the Department of Computer Science at the University of Edinburgh in June 1988 with an additional chapter summarising more recent developments Some of the material has appeared in the form of papers 50 88 The underlying theme of the monograph is the study of two classical problems counting the elements of a finite set of combinatorial structures and generating them uniformly at random In their exact form these problems appear to be intractable for many important structures so interest has focused on finding efficient randomised algorithms that solve them approximately with a small probability of error For most natural structures the two problems are intimately connected at this level of approximation so it is natural to study them together At the heart of the monograph is a single algorithmic paradigm simulate a Markov chain whose states are combinatorial structures and which converges to a known probability distribution over them This technique has applications

not only in combinatorial counting and generation but also in several other areas such as statistical physics and combinatorial optimization The efficiency of the technique in any application depends crucially on the rate of convergence of the Markov chain Algorithms for Big Data Hannah Bast,Claudius Korzen,Ulrich Meyer,Manuel Penschuck,2023-01-17
This open access book surveys the progress in addressing selected challenges related to the growth of big data in combination with increasingly complicated hardware It emerged from a research program established by the German Research Foundation DFG as priority program SPP 1736 on Algorithmics for Big Data where researchers from theoretical computer science worked together with application experts in order to tackle problems in domains such as networking genomics research and information retrieval Such domains are unthinkable without substantial hardware and software support and these systems acquire process exchange and store data at an exponential rate The chapters of this volume summarize the results of projects realized within the program and survey related work This is an open access book

Exact Exponential Algorithms Texts In Theoretical Computer Science An Eatcs Series: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the engaging narratives that have charmed audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Exact Exponential Algorithms Texts In Theoretical Computer Science An Eatcs Series : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a exceptional and suspenseful novel that will keep you wondering until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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