



Algorithms and Computation in Mathematics



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Algorithms And Computation

Mikhail J. Atallah, Marina Blanton



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Algorithms and Computation Tetsuo Asano,2006-12-07 This book constitutes the refereed proceedings of the 17th International Symposium on Algorithms and Computation ISAAC 2006 held in Kolkata India December 2006 The 73 revised full papers cover algorithms and data structures online algorithms approximation algorithm computational geometry computational complexity optimization and biology combinatorial optimization and quantum computing as well as distributed computing and cryptography Algorithms and Computation Otfried Cheong,Kyung-Yong Chwa,Kunsoo Park,2010-12-06

Annotation This book constitutes the refereed proceedings of the 21st International Symposium on Algorithms and Computation ISAAC 2010 held in Jeju South Korea in December 2010 The 77 revised full papers presented were carefully reviewed and selected from 182 submissions for inclusion in the book This volume contains topics such as approximation algorithm complexity data structure and algorithm combinatorial optimization graph algorithm computational geometry graph coloring fixed parameter tractability optimization online algorithm and scheduling **Algorithms and Computation**

Prosenjit Bose,Pat Morin,2002-11-08 This book constitutes the refereed proceedings of the 13th Annual International Symposium on Algorithms and Computation ISAAC 2002 held in Vancouver BC Canada in November 2002 The 54 revised full papers presented together with 3 invited contributions were carefully reviewed and selected from close to 160 submissions The papers cover all relevant topics in algorithmics and computation in particular computational geometry algorithms and data structures approximation algorithms randomized algorithms graph drawing and graph algorithms combinatorial optimization computational biology computational finance cryptography and parallel and distributed algorithms

Computing in Algebraic Geometry Wolfram Decker,Christoph Lossen,2006-03-02 This book provides a quick access to computational tools for algebraic geometry the mathematical discipline which handles solution sets of polynomial equations Originating from a number of intense one week schools taught by the authors the text is designed so as to provide a step by step introduction which enables the reader to get started with his own computational experiments right away The authors present the basic concepts and ideas in a compact way **Algorithms and Computation** Leizhen Cai,Siu-Wing

Cheng,Tak-Wah Lam,2013-12-12 This book constitutes the refereed proceedings of the 24th International Symposium on Algorithms and Computation ISAAC 2013 held in Hong Kong China in December 2013 The 67 revised full papers presented together with 2 invited talks were carefully reviewed and selected from 177 submissions for inclusion in the book The focus of the volume is on the following topics computation geometry pattern matching computational complexity internet and social network algorithms graph theory and algorithms scheduling algorithms fixed parameter tractable algorithms algorithms and data structures algorithmic game theory approximation algorithms and network algorithms **Algorithms and Computation** ,2008 Algorithms and Theory of Computation Handbook, Volume 1 Mikhail J. Atallah,Marina

Blanton,2009-11-20 Algorithms and Theory of Computation Handbook Second Edition General Concepts and Techniques

provides an up to date compendium of fundamental computer science topics and techniques It also illustrates how the topics and techniques come together to deliver efficient solutions to important practical problems Along with updating and revising many *Algorithms and Computation* Hon Wai Leong,Hiroshi Imai,Sanjay Jain,1997-11-21 This book constitutes the refereed proceedings of the 8th International Symposium on Algorithms and Computation ISAAC 97 held in Singapore in December 1997 The 42 revised full papers presented were selected from a total of 98 submissions The scope of the volume spans the whole area of algorithms from discrete mathematics and complexity theory to algorithms design and evaluation in a variety of applicational areas Among the topics addressed are scheduling and logistics networking and routing combinatorial optimization graph computations algorithmic learning computational geometry etc **Elements of**

Computation Theory Arindama Singh,2009-04-30 The foundation of computer science is built upon the following questions What is an algorithm What can be computed and what cannot be computed What does it mean for a function to be computable How does computational power depend upon programming constructs Which algorithms can be considered feasible For more than 70 years computer scientists are searching for answers to such qu tions Their ingenious techniques used in answering these questions form the theory of computation Theory of computation deals with the most fundamental ideas of computer s ence in an abstract but easily understood form The notions and techniques employed are widely spread across various topics and are found in almost every branch of c puter science It has thus become more than a necessity to revisit the foundation learn the techniques and apply them with con dence Overview and Goals This book is about this solid beautiful and pervasive foundation of computer s ence It introduces the fundamental notions models techniques and results that form the basic paradigms of computing It gives an introduction to the concepts and mathematics that computer scientists of our day use to model to argue about and to predict the behavior of algorithms and computation The topics chosen here have shown remarkable persistence over the years and are very much in current use *Algorithms and Theory of Computation Handbook, Volume 2* Mikhail J. Atallah,Marina Blanton,2009-11-20 Algorithms and Theory of Computation Handbook Second Edition Special Topics and Techniques provides an up to date compendium of fundamental computer science topics and techniques It also illustrates how the topics and techniques come together to deliver efficient solutions to important practical problems Along with updating and revising many of *Algorithms and Theory of Computation Handbook - 2 Volume Set* Mikhail J. Atallah,Marina Blanton,2022-05-29 Algorithms and Theory of Computation Handbook Second Edition in a two volume set provides an up to date compendium of fundamental computer science topics and techniques It also illustrates how the topics and techniques come together to deliver efficient solutions to important practical problems New to the Second Edition Along with updating and revising many of the existing chapters this second edition contains more than 20 new chapters This edition now covers external memory parameterized self stabilizing and pricing algorithms as well as the theories of algorithmic coding privacy and anonymity databases computational games and communication networks It

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An Introduction to Quantum Computing Algorithms Arthur O. Pittenger, 2012-12-06 In 1994 Peter Shor 65 published a factoring algorithm for a quantum computer that finds the prime factors of a composite integer N more efficiently than is possible with the known algorithms for a classical computer Since the difficulty of the factoring problem is crucial for the security of a public key encryption system interest and funding in quantum computing and quantum computation suddenly blossomed Quantum computing had arrived The study of the role of quantum mechanics in the theory of computation seems to have begun in the early 1980s with the publications of Paul Benioff 67 who considered a quantum mechanical model of computers and the computation process A related question was discussed shortly thereafter by Richard Feynman 35 who began from a different perspective by asking what kind of computer should be used to simulate physics His analysis led him to the belief that with a suitable class of quantum machines one could imitate any quantum system

Algorithms and Theory of Computation Handbook Mikhail J. Atallah, 1998-11-23 *Algorithms and Theory of Computation Handbook* is a comprehensive collection of algorithms and data structures that also covers many theoretical issues It offers a balanced perspective that reflects the needs of practitioners including emphasis on applications within discussions on theoretical issues Chapters include information on finite precision issues as well as discussion of specific algorithms where algorithmic techniques are of special importance including graph drawing robotics forming a VLSI chip vision and image processing data compression and cryptography The book also presents some advanced topics in combinatorial optimization and parallel distributed computing applications areas where algorithms and data structuring techniques are of special importance graph drawing robot algorithms VLSI layout vision and image processing algorithms scheduling electronic cash data compression dynamic graph algorithms on line algorithms multidimensional data structures cryptography advanced topics in combinatorial optimization and parallel distributed computing

Computational Intelligence-based Optimization Algorithms Babak Zolghadr-Asli, 2023-10-11 Computational

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Algorithms and Theory of Computation Handbook, Second Edition - 2 Volume Set Mikhail J. Atallah, Marina Blanton, 2009-11-20. This handbook provides an up to date compendium of fundamental computer science topics and techniques. It also illustrates how the topics and techniques come together to deliver efficient solutions to important practical problems. New to the Second Edition: Along with updating and revising many of the existing chapters, this second edition contains more than 20 new chapters. This edition now covers external memory parameterized self stabilizing and pricing algorithms as well as the theories of algorithmic coding, privacy and anonymity, databases, computational games and communication networks. It also discusses computational topology, computational number theory, natural language processing and grid computing and explores applications in intensity modulated radiation therapy, voting, DNA research, systems biology and financial derivatives. This best selling handbook continues to help computer professionals and engineers find significant information on various algorithmic topics. The expert contributors clearly define the terminology, present basic results and techniques and offer a number of current references to the in depth literature. They also provide a glimpse of the major research issues concerning the relevant topics.

Algorithms and Computation, 2007. Annotation: 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.

Algorithms in Bioinformatics Aaron Darling, Jens Stoye, 2013-08-16. This book constitutes the refereed proceedings of the 13th International Workshop on Algorithms in Bioinformatics WABI 2013 held in Sophia Antipolis, France in September 2013. WABI 2013 is one of seven workshops which along with the European Symposium on Algorithms ESA constitute the ALGO annual meeting and highlights research in algorithmic work for bioinformatics, computational biology and systems biology. The goal is to present recent research results including significant work in progress and to identify and explore directions of future research. The 27 full papers presented were carefully reviewed and selected from 61 submissions. The papers cover all aspects of algorithms in bioinformatics, computational biology and systems biology.

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