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Boolean Functions and Computation Models



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Ingo Wegener



Boolean Functions And Computation Models:

Boolean Functions and Computation Models Peter Clote, Evangelos Kranakis, 2002-09-19 The two internationally renowned authors elucidate the structure of fast parallel computation Its complexity is emphasised through a variety of techniques ranging from finite combinatorics probability theory and finite group theory to finite model theory and proof theory Non uniform computation models are studied in the form of Boolean circuits uniform ones in a variety of forms Steps in the investigation of non deterministic polynomial time are surveyed as is the complexity of various proof systems Providing a survey of research in the field the book will benefit advanced undergraduates and graduate students as well as researchers

Models for Parallel and Distributed Computation R. Correa, Ines de Castro Dutra, Mario Fiallos, Luiz Fernando Gomes da Silva, 2013-06-29 Parallel and distributed computation has been gaining a great lot of attention in the last decades During this period the advances attained in computing and communication technologies and the reduction in the costs of those technologies played a central role in the rapid growth of the interest in the use of parallel and distributed computation in a number of areas of engineering and sciences Many actual applications have been successfully implemented in various platforms varying from pure shared memory to totally distributed models passing through hybrid approaches such as distributed shared memory architectures Parallel and distributed computation differs from classical sequential computation in some of the following major aspects the number of processing units independent local clock for each unit the number of memory units and the programming model For representing this diversity and depending on what level we are looking at the problem researchers have proposed some models to abstract the main characteristics or parameters physical components or logical mechanisms of parallel computers The problem of establishing a suitable model is to find a reasonable trade off among simplicity power of expression and universality Then be able to study and analyze more precisely the behavior of parallel applications

Theory and Applications of Models of Computation Manindra Agrawal, Ding-Zhu Du, Zhenhua

Duan, Angsheng Li, 2008-04-30 This proceedings volume examines all major areas in computer science mathematics especially logic and the physical sciences especially computation algorithms complexity and computability theory

Algorithms and Computation Seok-Hee Hong, Hiroshi Nagamochi, Takuro Fukunaga, 2008-12 This book constitutes the refereed proceedings of the 19th International Symposium on Algorithms and Computation ISAAC 2008 held in Gold Coast Australia in December 2008 The 78 revised full papers together with 3 invited talks presented were carefully reviewed and selected from 229 submissions for inclusion in the book The papers are organized in topical sections on approximation algorithms online algorithms data structure and algorithms game theory graph algorithms fixed parameter tractability distributed algorithms database approximation algorithms computational biology computational geometry complexity networks optimization as well as routing

Theory and Applications of Models of Computation Xujin Chen, Bo Li, 2024-05-02 This book constitutes the

proceedings of the 18th Annual Conference on Theory and Applications of Models of Computation TAMC 2024 which was

held in Hong Kong China during May 13 15 2024 The 30 full papers presented in this book were carefully reviewed and selected from 69 submissions The main themes of the selected papers are computability complexity algorithms information theory as well as their integration with machine learning theory and the foundations of artificial intelligence **Theory and Applications of Models of Computation** Rahul Jain, Sanjay Jain, Frank Stephan, 2015-04-15 This book constitutes the refereed proceedings of the 12th Annual Conference on Theory and Applications of Models of Computation TAMC 2014 held in Singapore in May 2015 The 35 revised full papers presented were carefully reviewed and selected from 78 submissions The papers treat all topics relating to the theory and applications of models computation for example recursion theory and mathematical logic computational complexity and Boolean functions graphy theory quantum computing parallelism and statistics learning automata and probabilistic models parameterised complexity **Fundamentals of Computation Theory** Lothar Budach, 1991-08-28 This volume contains papers which were contributed for presentation at the international conference Fundamentals of Computation Theory FCT 91 held at Gosen near Berlin September 9 13 1991 This was the eighth in the series of FCT conferences organized every odd year The programme of the conference including invited lectures and selected contributions falls into the following categories Semantics and logical concepts in the theory of computing formal specification Automata and formal languages Computational geometry Algorithmic aspects of algebra and algebraic geometry cryptography Complexity sequential parallel distributed computing structure lower bounds complexity of analytical problems general concepts Algorithms efficient probabilistic parallel sequential distributed Counting and combinatorics in connection with mathematical computer science The proceedings of previous FCT meetings are available as Lecture Notes in Computer Science Vols 380 278 199 158 117 56 *Mathematics and Computation* Avi Wigderson, 2019-10-29 From the winner of the Turing Award and the Abel Prize an introduction to computational complexity theory its connections and interactions with mathematics and its central role in the natural and social sciences technology and philosophy Mathematics and Computation provides a broad conceptual overview of computational complexity theory the mathematical study of efficient computation With important practical applications to computer science and industry computational complexity theory has evolved into a highly interdisciplinary field with strong links to most mathematical areas and to a growing number of scientific endeavors Avi Wigderson takes a sweeping survey of complexity theory emphasizing the field's insights and challenges He explains the ideas and motivations leading to key models notions and results In particular he looks at algorithms and complexity computations and proofs randomness and interaction quantum and arithmetic computation and cryptography and learning all as parts of a cohesive whole with numerous cross influences Wigderson illustrates the immense breadth of the field its beauty and richness and its diverse and growing interactions with other areas of mathematics He ends with a comprehensive look at the theory of computation its methodology and aspirations and the unique and fundamental ways in which it has shaped and will further shape science technology and society For further

reading an extensive bibliography is provided for all topics covered Mathematics and Computation is useful for undergraduate and graduate students in mathematics computer science and related fields as well as researchers and teachers in these fields Many parts require little background and serve as an invitation to newcomers seeking an introduction to the theory of computation Comprehensive coverage of computational complexity theory and beyond High level intuitive exposition which brings conceptual clarity to this central and dynamic scientific discipline Historical accounts of the evolution and motivations of central concepts and models A broad view of the theory of computation s influence on science technology and society Extensive bibliography

Branching Programs and Binary Decision Diagrams Ingo Wegener,2000-01-01 Finite functions in particular Boolean functions play a fundamental role in computer science and discrete mathematics This book describes representations of Boolean functions that have small size for many important functions and which allow efficient work with the represented functions The representation size of important and selected functions is estimated upper and lower bound techniques are studied efficient algorithms for operations on these representations are presented and the limits of those techniques are considered This book is the first comprehensive description of theory and applications Research areas like complexity theory efficient algorithms data structures and discrete mathematics will benefit from the theory described in this book The results described within have applications in verification computer aided design model checking and discrete mathematics This is the only book to investigate the representation size of Boolean functions and efficient algorithms on these representations

Models and Algorithms for Biomolecules and Molecular Networks Bhaskar DasGupta,Jie Liang,2016-01-06 By providing expositions to modeling principles theories computational solutions and open problems this reference presents a full scope on relevant biological phenomena modeling frameworks technical challenges and algorithms Up to date developments of structures of biomolecules systems biology advanced models and algorithms Sampling techniques for estimating evolutionary rates and generating molecular structures Accurate computation of probability landscape of stochastic networks solving discrete chemical master equations End of chapter exercises

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