Peter Clote
Evangelos Kranakis

Boolean Functions and Computation Models

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Boolean Functions and Computation Models Peter Clote,Evangelos Kranakis,2014-01-15 **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 **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 technolo gies 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 plat forms 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 dassical sequential compu tation in some of the following major aspects the number of processing units independent local dock 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 Computational Models of Argument Chris Reed,Matthias Thimm,Tjitze Rienstra,2024-09-15 This book presents the proceedings of COMMA 2024 the 10th biennial International Conference on Computational Models of Argument held from 18 to 20 September 2024 in Hagen Germany The COMMA conference series provides a dedicated forum for the presentation and discussion of the latest advancements in this interdisciplinary field covering basic research systems and innovative applications and nurturing the steady growth of interest in computational argumentation research worldwide A total of 63 submissions was received for the conference and after a thorough review process 26 were accepted as full papers with a further 12 accepted as demos accompanied by an extended abstract and 2 as full papers with accompanying demo resulting in an acceptance rate of 53%

for full papers and 63% for papers and demo abstracts combined In addition to these 40 papers extended abstracts of the 3 invited talks are also included here Semantics in Argumentation Classifications and Challenges by Leila Amgoud Expanding the Scope of Bayesian Argumentation by Ulrike Hahn and The Long Road to Trustworthy Natural Language Argumentation by Serena Villata The book provides a fascinating overview of current research and innovations and will be of interest to all those working in the field **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 heldat Gosen near Berlin September 9 13 1991 This was the eighth in the series of FCT conferences organized every odd year The programme of theconference 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

Evolutionary Computation in Combinatorial Optimization Martin S. Krejca,Markus Wagner,2025-03-27 This book constitutes the referred proceedings of the 25th European Conference on Evolutionary Computation in Combinatorial Optimization EvoCOP 2025 held as part of EvoStar 2025 in Trieste Italy during April 23 25 2025 The 16 full papers presented in this book were carefully reviewed and selected from 43 submissions These papers cover a variety of topics ranging from benchmark creation over genetic programming heuristics for real world and NP hard problems as well as the foundations of evolutionary computation algorithms and other search heuristics to both mixed binary and multi objective optimization

The Complexity of Boolean Functions Ingo Wegener,1987 Presents a large number of recent research results previously unavailable in book form Initially deals with the wee known computation models and goes on to special types of circuits parallel computers and branching programs Includes basic theory as well recent research findings Each chapter includes exercises **Unconventional Computation and Natural Computation** Ian McQuillan,Shinnosuke Seki,2019-05-27 This book constitutes the proceedings of the 18th International Conference on Unconventional Computation and Natural Computation UCNC 2019 held in Tokyo Japan in June 2019 The 19 full papers presented were carefully reviewed and selected from 32 submissions The papers cover topics such as hypercomputation chaos and dynamical systems based computing granular fuzzy and rough computing mechanical computing cellular evolutionary molecular neural and quantum computing membrane computing amorphous computing swarm intelligence artificial immune systems physics of computation chemical computation evolving hardware the computational nature of self assembly developmental processes bacterial communication and brain processes Proceedings of the 36th Annual ACM Symposium on the Theory of Computing ,2004

Cryptography and Security in Computing Jaydip Sen,2012-03-07 The purpose of this book is to present some of the critical security challenges in today s computing world and to discuss mechanisms for defending against those attacks by using classical and modern approaches of cryptography and other defence mechanisms It contains eleven chapters which are divided into two parts The chapters in Part 1 of the book mostly deal with theoretical and fundamental aspects of cryptography The chapters in Part 2 on the other hand discuss various applications of cryptographic protocols and techniques in designing computing and network security solutions The book will be useful for researchers engineers graduate and doctoral students working in cryptography and security related areas It will also be useful for faculty members of graduate schools and universities *Artificial Intelligence and System Engineering* Radek Silhavy,Petr Silhavy,2025-09-29 This book presents cutting edge research from CoMeSySo 2024 bridging theoretical insights and practical solutions across modern computing Highlighting data driven methodologies innovative modelling and robust optimization strategies this book uniquely integrates interdisciplinary approaches to complex computational problems Through real world case studies readers gain actionable insights applicable to diverse fields such as artificial intelligence cybersecurity e learning and operational logistics Targeted at academic researchers industry specialists and graduate students the compilation provides valuable frameworks and advanced analytical tools for enhancing performance efficiency and decision making The presented studies encompassing adaptive network modelling deep learning applications and novel AI driven frameworks equip readers to tackle emerging challenges and drive future advancements effectively

Fundamentals of Computation Theory ,2001 SIAM Journal on Computing Society for Industrial and Applied Mathematics,2005 Contains research articles in the application of mathematics to the problems of computer science and the nonnumerical aspects of computing Mathematical Foundations of Computer Science ,2001 *Proceedings of the 33rd Annual ACM Symposium on Theory of Computing* ,2001 **1995 IEEE Structure in Complexity Theory** ,1995

Algorithms and Computation ,2005 **Computer & Control Abstracts** ,1996 A Computational Model for Neural Feature Extraction Bartlett W. Mel,1987

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