

Computational Complexity Theory



Complexity Theory Wiskunde

Jörg Rothe



Complexity Theory Wiskunde:

Computational Complexity Theory Juris Hartmanis, 1989 Computational complexity theory is the study of the quantitative laws that govern computing This book contains the proceedings of the AMS Short Course on Computational Complexity Theory held at the Joint Mathematics Meetings in Atlanta in January 1988 *Theory of Computational Complexity* Ding-Zhu Du, Ker-I Ko, 2014-06-30 Praise for the First Edition complete up to date coverage of computational complexity theory the book promises to become the standard reference on computational complexity Zentralblatt MATH A thorough revision based on advances in the field of computational complexity and readers feedback the Second Edition of Theory of Computational Complexity presents updates to the principles and applications essential to understanding modern computational complexity theory The new edition continues to serve as a comprehensive resource on the use of software and computational approaches for solving algorithmic problems and the related difficulties that can be encountered Maintaining extensive and detailed coverage Theory of Computational Complexity Second Edition examines the theory and methods behind complexity theory such as computational models decision tree complexity circuit complexity and probabilistic complexity The Second Edition also features recent developments on areas such as NP completeness theory as well as A new combinatorial proof of the PCP theorem based on the notion of expander graphs a research area in the field of computer science Additional exercises at varying levels of difficulty to further test comprehension of the presented material End of chapter literature reviews that summarize each topic and offer additional sources for further study Theory of Computational Complexity Second Edition is an excellent textbook for courses on computational theory and complexity at the graduate level The book is also a useful reference for practitioners in the fields of computer science engineering and mathematics who utilize state of the art software and computational methods to conduct research *Complexity Theory of Real Functions* K. Ko, 2012-12-06 Starting with Cook's pioneering work on NP completeness in 1970 polynomial complexity theory the study of polynomial time computability has quickly emerged as the new foundation of algorithms On the one hand it bridges the gap between the abstract approach of recursive function theory and the concrete approach of analysis of algorithms It extends the notions and tools of the theory of computability to provide a solid theoretical foundation for the study of computational complexity of practical problems In addition the theoretical studies of the notion of polynomial time tractability some times also yield interesting new practical algorithms A typical example is the application of the ellipsoid algorithm to combinatorial optimization problems see for example Lovasz 1986 On the other hand it has a strong influence on many different branches of mathematics including combinatorial optimization graph theory number theory and cryptography As a consequence many researchers have begun to re-examine various branches of classical mathematics from the complexity point of view For a given nonconstructive existence theorem in classical mathematics one would like to find a constructive proof which admits a polynomial time algorithm for the solution One of the examples is the recent work on algorithmic theory of permutation

groups In the area of numerical computation there are also two traditionally independent approaches recursive analysis and numerical analysis *Computational Complexity Theory* American Mathematical Society,2014-05-10 Computational complexity theory is the study of the quantitative laws that govern computing This book contains the proceedings of the AMS Short Course on Computational Complexity Theory held at the Joint Mathematics Meetings in Atlanta in January 1988

The Complexity Theory Companion Lane Hemaspaandra,Mitsunori Ogihara,2001-12-01 Here is an accessible algorithmically oriented guide to some of the most interesting techniques of complexity theory The book shows that simple algorithms are at the heart of complexity theory The book is organized by technique rather than by topic Each chapter focuses on one technique what it is and what results and applications it yields **Algebraic Complexity Theory** Peter Bürgisser,Michael Clausen,Mohammad A. Shokrollahi,2013-03-14 The algorithmic solution of problems has always been one of the major concerns of mathematics For a long time such solutions were based on an intuitive notion of algorithm It is only in this century that metamathematical problems have led to the intensive search for a precise and sufficiently general formalization of the notions of computability and algorithm In the 1930s a number of quite different concepts for this purpose were proposed such as Turing machines WHILE programs recursive functions Markov algorithms and Thue systems All these concepts turned out to be equivalent a fact summarized in Church's thesis which says that the resulting definitions form an adequate formalization of the intuitive notion of computability This had and continues to have an enormous effect First of all with these notions it has been possible to prove that various problems are algorithmically unsolvable Among of group these undecidable problems are the halting problem the word problem theory the Post correspondence problem and Hilbert's tenth problem Secondly concepts like Turing machines and WHILE programs had a strong influence on the development of the first computers and programming languages In the era of digital computers the question of finding efficient solutions to algorithmically solvable problems has become increasingly important In addition the fact that some problems can be solved very efficiently while others seem to defy all attempts to find an efficient solution has called for a deeper understanding of the intrinsic computational difficulty of problems **Complexity Theory of Real Functions** K. Ko,1991-10-01 **Complexity Theory and Cryptology** Jörg Rothe,2005-07-22 Modern cryptology increasingly employs mathematically rigorous concepts and methods from complexity theory Conversely current research topics in complexity theory are often motivated by questions and problems from cryptology This book takes account of this situation and therefore its subject is what may be dubbed cryptocomplexity a kind of symbiosis of these two areas This book is written for undergraduate and graduate students of computer science mathematics and engineering and can be used for courses on complexity theory and cryptology preferably by stressing their interrelation Moreover it may serve as a valuable source for researchers teachers and practitioners working in these fields Starting from scratch it works its way to the frontiers of current research in these fields and provides a detailed overview of their history and their current research topics and

challenges

Computability and Complexity Theory Steven Homer, Alan L. Selman, 2011-12-09 This revised and extensively expanded edition of *Computability and Complexity Theory* comprises essential materials that are core knowledge in the theory of computation. The book is self-contained with a preliminary chapter describing key mathematical concepts and notations. Subsequent chapters move from the qualitative aspects of classical computability theory to the quantitative aspects of complexity theory. Dedicated chapters on undecidability, NP-completeness, and relative computability focus on the limitations of computability and the distinctions between feasible and intractable. Substantial new content in this edition includes a chapter on nonuniformity, studying Boolean circuits, advice classes, and the important result of Karp-Lipton; a chapter studying properties of the fundamental probabilistic complexity classes; a study of the alternating Turing machine and uniform circuit classes; an introduction of counting classes; proving the famous results of Valiant and Vazirani and of Toda; a thorough treatment of the proof that IP is identical to PSPACE. With its accessibility and well-devised organization, this text/reference is an excellent resource and guide for those looking to develop a solid grounding in the theory of computing. Beginning graduates, advanced undergraduates, and professionals involved in theoretical computer science, complexity theory, and computability will find the book an essential and practical learning tool.

Topics and features: Concise, focused materials cover the most fundamental concepts and results in the field of modern complexity theory, including the theory of NP-completeness, NP-hardness, the polynomial hierarchy, and complete problems for other complexity classes. Contains information that otherwise exists only in research literature and presents it in a unified, simplified manner. Provides key mathematical background information, including sections on logic and number theory and algebra. Supported by numerous exercises and supplementary problems for reinforcement and self-study purposes.

Computational Complexity Theory, 2004 *Computational Complexity Theory* is the study of how much of a given resource is required to perform the computations that interest us the most. Four decades of fruitful research have produced a rich and subtle theory of the relationship between different resource measures and problems. At the core of the theory are some of the most alluring open problems in mathematics. This book presents three weeks of lectures from the IAS Park City Mathematics Institute Summer School on computational complexity. The first week gives a general introduction to the field, including descriptions of the basic models.

Structure in Complexity Theory Alan L. Selman, 1986

Completeness and Reduction in Algebraic Complexity Theory Peter Bürgisser, 1998

Complexity Theory and Cryptology Jörg Rothe, 2009-09-02 Modern cryptology increasingly employs mathematically rigorous concepts and methods from complexity theory. Conversely, current research topics in complexity theory are often motivated by questions and problems from cryptology. This book takes account of this situation and therefore its subject is what may be dubbed *cryptocomplexity*, a kind of symbiosis of these two areas. This book is written for undergraduate and graduate students of computer science, mathematics, and engineering and can be used for courses on complexity theory and cryptology, preferably by stressing their interrelation. Moreover, it may serve as a

valuable source for researchers teachers and practitioners working in these fields Starting from scratch it works its way to the frontiers of current research in these fields and provides a detailed overview of their history and their current research topics and challenges

The Complexity Theory Companion Lane Hemaspaandra, Mitsunori Ogihara, 2014-01-15

Theory of Linear and Integer Programming Alexander Schrijver, 1998-06-11

Theory of Linear and Integer Programming Alexander Schrijver Centrum voor Wiskunde en Informatica Amsterdam The Netherlands This book describes the theory of linear and integer programming and surveys the algorithms for linear and integer programming problems focusing on complexity analysis It aims at complementing the more practically oriented books in this field A special feature is the author's coverage of important recent developments in linear and integer programming Applications to combinatorial optimization are given and the author also includes extensive historical surveys and bibliographies The book is intended for graduate students and researchers in operations research mathematics and computer science It will also be of interest to mathematical historians

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Computational Learning Theory Martin Anthony, N. Biggs, 1997-02-27 Computational learning theory is a subject which has been advancing rapidly in the last few years The authors concentrate on the probably approximately correct model of learning and gradually develop the ideas of efficiency considerations Finally applications of the theory to artificial neural networks are considered Many exercises are included throughout and the list of references is extensive This volume is relatively self contained as the necessary background material from logic probability and complexity theory is included It will therefore form an introduction to the theory of computational learning suitable for a broad spectrum of graduate students from theoretical computer science and mathematics

Scientific and Technical Aerospace Reports, 1988-03

Theory of Computation Dexter C. Kozen, 2006-05-08 This textbook is uniquely written with dual purpose It covers core material in the foundations of computing for graduate students in computer science and also provides an introduction to some more advanced topics for those

intending further study in the area This innovative text focuses primarily on computational complexity theory the classification of computational problems in terms of their inherent complexity The book contains an invaluable collection of lectures for first year graduates on the theory of computation Topics and features include more than 40 lectures for first year graduate students and a dozen homework sets and exercises *Complexity Theory* Ingo Wegener,2005-04-11 Reflects recent developments in its emphasis on randomized and approximation algorithms and communication models All topics are considered from an algorithmic point of view stressing the implications for algorithm design **Algebraic Systems of Equations and Computational Complexity Theory** Z. Wang,S. Xu,T. Gao,2014-01-14

Unveiling the Magic of Words: A Review of "**Complexity Theory Wiskunde**"

In some sort of defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is actually awe-inspiring. Enter the realm of "**Complexity Theory Wiskunde**," a mesmerizing literary masterpiece penned with a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

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