

Computability and Complexity Theory



Steven Homer
Alan L. Selman



Springer

Computability And Complexity Theory Texts In Computer Science

Jörg Rothe



Computability And Complexity Theory Texts In Computer Science:

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.

Computability, Complexity, and Languages Martin Davis, Ron Sigal, Elaine J. Weyuker, 1994-02-03 This introductory text covers the key areas of computer science, including recursive function theory, formal languages, and automata. Additions to the second edition include extended exercise sets which vary in difficulty, an expanded section on recursion theory, new chapters on program verification and logic programming, updated references, and examples throughout.

Theory of Computation Dexter C. Kozen, 2006-09-19 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.

Computability, Complexity, Logic E. Börger, 1989-07-01 The theme of this book is formed by a pair of concepts: the concept of formal language as carrier of the precise expression of meaning, facts, and

problems and the concept of algorithm or calculus i.e a formally operating procedure for the solution of precisely described questions and problems The book is a unified introduction to the modern theory of these concepts to the way in which they developed first in mathematical logic and computability theory and later in automata theory and to the theory of formal languages and complexity theory Apart from considering the fundamental themes and classical aspects of these areas the subject matter has been selected to give priority throughout to the new aspects of traditional questions results and methods which have developed from the needs or knowledge of computer science and particularly of complexity theory It is both a textbook for introductory courses in the above mentioned disciplines as well as a monograph in which further results of new research are systematically presented and where an attempt is made to make explicit the connections and analogies between a variety of concepts and constructions Algorithmic Randomness and Complexity Rodney G. Downey, Denis R.

Hirschfeldt, 2010-10-29 Computability and complexity theory are two central areas of research in theoretical computer science This book provides a systematic technical development of algorithmic randomness and complexity for scientists from diverse fields *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 **SOFSEM 2025: Theory and Practice of Computer Science** Rastislav Kráľovič, Věra Kůrková, 2025-02-15

This book constitutes the proceedings of the 50th International Conference on Current Trends in Theory and Practice of Computer Science SOFSEM 2025 held in Bratislava Slovak Republic during January 20-23 2025 The 48 full papers presented in this book were carefully reviewed and selected from 109 submissions They include original research from all areas of foundations of computer science and artificial intelligence focusing on AI based algorithms and techniques nature inspired computing machine learning theory multi agent algorithms and games neural network theory parallel and distributed computing quantum computing computability decidability classical and non classical models of computation computational complexity computational learning cryptographic techniques and security data compression data and pattern mining methods discrete combinatorial optimization automata languages machine models rewriting systems efficient data structures graph structure and algorithms logics of computation robotics and other relevant theory topics in computing and AI

Computability and Complexity Neil D. Jones, 1997 Computability and complexity theory should be of central concern to

practitioners as well as theorists Unfortunately however the field is known for its impenetrability Neil Jones's goal as an educator and author is to build a bridge between computability and complexity theory and other areas of computer science especially programming In a shift away from the Turing machine and Gödel number oriented classical approaches Jones uses concepts familiar from programming languages to make computability and complexity more accessible to computer scientists and more applicable to practical programming problems According to Jones the fields of computability and complexity theory as well as programming languages and semantics have a great deal to offer each other Computability and complexity theory have a breadth depth and generality not often seen in programming languages The programming language community meanwhile has a firm grasp of algorithm design presentation and implementation In addition programming languages sometimes provide computational models that are more realistic in certain crucial aspects than traditional models New results in the book include a proof that constant time factors do matter for its programming oriented model of computation In contrast Turing machines have a counterintuitive constant speedup property that almost any program can be made to run faster by any amount Its proof involves techniques irrelevant to practice Further results include simple characterizations in programming terms of the central complexity classes PTIME and LOGSPACE and a new approach to complete problems for NLOGSPACE PTIME NPTIME and PSPACE uniformly based on Boolean programs Foundations of Computing series

Mathematical Foundations of Computer Science 2005 Joanna Jedrzejowicz, 2005-08-17 This book constitutes the refereed proceedings of the 30th International Symposium on Mathematical Foundations of Computer Science MFCS 2005 held in Gdansk Poland in August September 2005 The 62 revised full papers presented together with full papers or abstracts of 7 invited talks were carefully reviewed and selected from 137 submissions All current aspects in theoretical computer science are addressed ranging from quantum computing approximation automata circuits scheduling games languages discrete mathematics combinatorial optimization graph theory networking algorithms and complexity to programming theory formal methods and mathematical logic *Computing and Combinatorics* Lusheng Wang, Daming Zhu, 2018-06-29 This book constitutes the proceedings of the 24th International Conference on Computing and Combinatorics COCOON 2018 held in Qing Dao China in July 2018 The 62 papers presented in this volume were carefully reviewed and selected from 120 submissions They deal with the areas of algorithms theory of computation computational complexity and combinatorics related to computing

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