

Introduction to the Theory of Computation (complexity, computability, and automata)

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ดร.สุธี สุดประเสริฐ



Computability And Complexity Theory

Steven Homer, Alan L. Selman



Computability And Complexity Theory:

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 expanded section on recursion theory new chapters on program verification and logic programming updated references and examples throughout *Computability and Complexity Theory* Steven Homer, Alan L. Selman, 2001 This volume introduces materials that are the core knowledge in the theory of computation The book is self contained with a preliminary chapter describing key mathematical concepts and notations and subsequent chapters moving from the qualitative aspects of classical computability theory to the quantitative aspects of complexity theory Dedicated chapters on undecidability NP completeness and relative computability round off the work which focuses on the limitations of computability and the distinctions between feasible and intractable 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 for example about complements of complexity classes search problems and intermediate problems in NP 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 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 **Computability and Complexity** Hubie Chen, 2023-08-29 A clear comprehensive and rigorous introduction to the theory of computation What is computable What leads to efficiency in computation Computability and Complexity offers a clear comprehensive and rigorous introduction to the mathematical study of the capabilities and limitations of computation Hubie Chen covers the core notions techniques methods and questions of the theory of computation before turning to several advanced topics Emphasizing intuitive learning and conceptual discussion this textbook s accessible approach offers a robust foundation for understanding both the reach and restrictions of algorithms and computers Extensive exercises and diagrams enhance streamlined student friendly presentation of mathematically rigorous material Includes thorough treatment of automata theory computability theory and complexity theory including the P versus NP question and the theory of NP completeness Suitable for undergraduate and graduate students researchers and professionals *Automata, Computability and Complexity* Elaine Rich, 2008 For upper level courses on Automata Combining classic theory with unique applications this crisp narrative is supported by abundant examples and clarifies key concepts by introducing important uses of techniques in

real systems Broad ranging coverage allows instructors to easily customise course material to fit their unique requirements

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

Automata, Computability & Complexity UPDF. Elaine Rich,2018 Automata Computability Complexity uPDF

Theory of Computation Dexter C. Kozen,2006-09-19 This textbook is uniquely written with dual purpose It cover cores 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 and Complexity Rod Downey,2024-05-10 This is a book about computation something which is ubiquitous in the modern world More precisely it examines computability theory and computational complexity theory Computability theory is the part of mathematics and computer science which seeks to clarify what we mean by computation or algorithm When is there a computational solution possible to some question How can we show that none is possible How computationally hard is the question we are concerned with Arguably this area lead to the development of digital computers Computational complexity theory is an intellectual heir of computability theory Complexity theory is concerned with understanding what resources are needed for computation where typically we would measure the resources in terms of time and space Can we perform some task in a feasible number of steps Can we perform some algorithm with only a limited memory Does randomness help Are there standard approaches to overcoming computational difficulty

Automata, Computability and Complexity Elaine Rich,2009 *Theoretical Computer Science* Juraj Hromkovič,2003-09-18 Juraj Hromkovic takes the reader on an elegant route through the theoretical fundamentals of computer science The author shows that theoretical computer science is a fascinating discipline full of spectacular contributions and miracles The book also presents the development of the computer

scientist s way of thinking as well as fundamental concepts such as approximation and randomization in algorithmics and the basic ideas of cryptography and interconnection network design *Computability and Complexity* R. G. Downey,2024

Handbook of Computability and Complexity in Analysis Vasco Brattka,Peter Hertling,2021-06-04 Computable analysis is the modern theory of computability and complexity in analysis that arose out of Turing s seminal work in the 1930s This was motivated by questions such as which real numbers and real number functions are computable and which mathematical tasks in analysis can be solved by algorithmic means Nowadays this theory has many different facets that embrace topics from computability theory algorithmic randomness computational complexity dynamical systems fractals and analog computers up to logic descriptive set theory constructivism and reverse mathematics In recent decades computable analysis has invaded many branches of analysis and researchers have studied computability and complexity questions arising from real and complex analysis functional analysis and the theory of differential equations up to geometric measure theory and topology This handbook represents the first coherent cross section through most active research topics on the more theoretical side of the field It contains 11 chapters grouped into parts on computability in analysis complexity dynamics and randomness and constructivity logic and descriptive complexity All chapters are written by leading experts working at the cutting edge of the respective topic Researchers and graduate students in the areas of theoretical computer science and mathematical logic will find systematic introductions into many branches of computable analysis and a wealth of information and references that will help them to navigate the modern research literature in this field **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 G del 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

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

Concise Guide to Computation Theory Akira Maruoka, 2011-05-06 This textbook presents a thorough foundation to the theory of computation Combining intuitive descriptions and illustrations with rigorous arguments and detailed proofs for key topics the logically structured discussion guides the reader through the core concepts of automata and languages computability and complexity of computation Topics and features presents a detailed introduction to the theory of computation complete with concise explanations of the mathematical prerequisites provides end of chapter problems with solutions in addition to chapter opening summaries and numerous examples and definitions throughout the text draws upon the author's extensive teaching experience and broad research interests discusses finite automata context free languages and pushdown automata examines the concept universality and limitations of the Turing machine investigates computational complexity based on Turing machines and Boolean circuits as well as the notion of NP completeness

Algorithmic Randomness and Complexity Rodney G. Downey, Denis R. Hirschfeldt, 2010-11-05 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

The Foundations of Computability Theory Borut Robič, 2015-09-14 This book offers an original and informative view of the development of fundamental concepts of computability theory The treatment is put into historical context emphasizing the motivation for ideas as well as their logical and formal development In Part I the author introduces computability theory with chapters on the foundational crisis of mathematics in the early twentieth century and formalism in Part II he explains classical computability theory with chapters on the quest for

formalization the Turing Machine and early successes such as defining incomputable problems c e computably enumerable sets and developing methods for proving incomputability in Part III he explains relative computability with chapters on computation with external help degrees of unsolvability the Turing hierarchy of unsolvability the class of degrees of unsolvability c e degrees and the priority method and the arithmetical hierarchy This is a gentle introduction from the origins of computability theory up to current research and it will be of value as a textbook and guide for advanced undergraduate and graduate students and researchers in the domains of computability theory and theoretical computer science

Computability Theory Herbert B. Enderton, 2010-12-30 *Computability Theory An Introduction to Recursion Theory* provides a concise comprehensive and authoritative introduction to contemporary computability theory techniques and results The basic concepts and techniques of computability theory are placed in their historical philosophical and logical context This presentation is characterized by an unusual breadth of coverage and the inclusion of advanced topics not to be found elsewhere in the literature at this level The text includes both the standard material for a first course in computability and more advanced looks at degree structures forcing priority methods and determinacy The final chapter explores a variety of computability applications to mathematics and science *Computability Theory* is an invaluable text reference and guide to the direction of current research in the field Nowhere else will you find the techniques and results of this beautiful and basic subject brought alive in such an approachable way Frequent historical information presented throughout More extensive motivation for each of the topics than other texts currently available Connects with topics not included in other textbooks such as complexity theory *Computability Theory : with a Short Introduction to Complexity Theory ; Monograph* Karl-Heinz Zimmermann, 2019 *Computability* Douglas S. Bridges, 2012-12-06 Aimed at mathematicians and computer scientists who will only be exposed to one course in this area *Computability A Mathematical Sketchbook* provides a brief but rigorous introduction to the abstract theory of computation sometimes also referred to as recursion theory It develops major themes in computability theory such as Rice s theorem and the recursion theorem and provides a systematic account of Blum s complexity theory as well as an introduction to the theory of computable real numbers and functions The book is intended as a university text but it may also be used for self study appropriate exercises and solutions are included

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