

N. J. Cutland

Computability

**An introduction
to recursive function
theory**

Computability An Introduction To Recursive Function Theory

Rod Downey



Computability An Introduction To Recursive Function Theory:

Computability Nigel Cutland,1980-06-19 What can computers do in principle What are their inherent theoretical limitations The theoretical framework which enables such questions to be answered has been developed over the last fifty years from the idea of a computable function a function whose values can be calculated in an automatic way

Computability Nigel J. Cutland,1980 [Computability](#) Nigel J. Cutland,1980 *Computability* Nigel Cutland,2000

Enumerability · Decidability Computability Hans Hermes,2012-12-06 Once we have accepted a precise replacement of the concept of algorithm it becomes possible to attempt the problem whether there exist well defined collections of problems which cannot be handled by algorithms and if that is the case to give concrete cases of this kind Many such investigations were carried out during the last few decades The undecidability of arithmetic and other mathematical theories was shown further the unsolvability of the word problem of group theory Many mathematicians consider these results and the theory on which they are based to be the most characteristic achievements of mathematics in the first half of the twentieth century If we grant the legitimacy of the suggested precise replacements of the concept of algorithm and related concepts then we can say that the mathematicians have shown by strictly mathematical methods that there exist mathematical problems which cannot be dealt with by the methods of calculating mathematics In view of the important role which mathematics plays today in our conception of the world this fact is of great philosophical interest Post speaks of a natural law about the limitations of the mathematicizing power of Homo Sapiens Here we also find a starting point for the discussion of the question what the actual creative activity of the mathematician consists in In this book we shall give an introduction to the theory of algorithms **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](#) Rebecca Weber,2012 What can we compute even with unlimited resources Is everything within reach Or are computations necessarily drastically limited not just in practice but theoretically These questions are at the heart of computability theory The goal of

this book is to give the reader a firm grounding in the fundamentals of computability theory and an overview of currently active areas of research such as reverse mathematics and algorithmic randomness Turing machines and partial recursive functions are explored in detail and vital tools and concepts including coding uniformity and diagonalization are described explicitly From there the material continues with universal machines the halting problem parametrization and the recursion theorem and thence to computability for sets enumerability and Turing reduction and degrees A few more advanced topics round out the book before the chapter on areas of research The text is designed to be self contained with an entire chapter of preliminary material including relations recursion induction and logical and set notation and operators That background along with ample explanation examples exercises and suggestions for further reading make this book ideal for independent study or courses with few prerequisites

The Foundations of Computability Theory Borut Robič, 2020-11-13 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 Finally in the new Part IV the author revisits the computability Church Turing thesis in greater detail He offers a systematic and detailed account of its origins evolution and meaning he describes more powerful modern versions of the thesis and he discusses recent speculative proposals for new computing paradigms such as hypercomputing 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 This new edition is completely revised with almost one hundred pages of new material In particular the author applied more up to date more consistent terminology and he addressed some notational redundancies and minor errors He developed a glossary relating to computability theory expanded the bibliographic references with new entries and added the new part described above and other new sections

Computable Models raymond turner, 2009-04-21 Computational models can be found everywhere in present day science and engineering In providing a logical framework and foundation for the specification and design of specification languages Raymond Turner uses this framework to introduce and study computable models In doing so he presents the first systematic attempt to provide computational models with a logical foundation Computable models have wide ranging applications from programming language semantics and specification languages through to knowledge representation languages and

formalism for natural language semantics They are also implicit in computer modelling in many areas of physical and social science This detailed investigation into the logical foundations of specification and specification languages and their application to the definition of programming languages coupled with a clear exposition of theories of data and computable models as mathematical notions will be welcomed by researchers and graduate students

Enumerability, Decidability, Computability Hans Hermes, 2013-03-14 The task of developing algorithms to solve problems has always been considered by mathematicians to be an especially interesting and important one Normally an algorithm is applicable only to a narrowly limited group of problems Such is for instance the Euclidean algorithm which determines the greatest common divisor of two numbers or the well known procedure which is used to obtain the square root of a natural number in decimal notation The more important these special algorithms are all the more desirable it seems to have algorithms of a greater range of applicability at one's disposal Throughout the centuries attempts to provide algorithms applicable as widely as possible were rather unsuccessful It was only in the second half of the last century that the first appreciable advance took place Namely an important group of the inferences of the logic of predicates was given in the form of a calculus Here the Boolean algebra played an essential pioneer role One could now perhaps have conjectured that all mathematical problems are solvable by algorithms However well known yet unsolved problems like the word problem of group theory or Hilbert's tenth problem which considers the question of solvability of Diophantine equations were warnings to be careful Nevertheless the impulse had been given to search for the essence of algorithms Leibniz already had inquired into this problem but without success

Automata Theory, Languages of Machines and Computability Shivam Saxena, 2018-02-05 The book is all about the automata formal language theory and computability Automata theory plays important roles in compilers text processing programming languages hardware designs and artificial intelligence and is the core base of computer science studies The intent is to make automata theory interesting and challenging and break the myth of being a tough topic For that matter topics are covered in an easy to understand manner with the help of elaborative and well described examples For topics which are little complex and fuzzy to understand strategy adopted is to connect the topic with the everyday problems we encounter in order to develop a connective understanding of the topic and get a clear view of the topic Exercise questions are provided with the answers to understand the solution easily The prospective audience for the book are computer science engineering students Computer science scholars and people preparing for competitive exams like GATE UGC NET etc

The Science of Computing David Harel, 1989 The Science of Computing presents in a no nonsense way an exposition on algorithms the topic that is the essence of computer programming Appropriate for programmers computer professionals and the technically minded public

Algorithms and Theory of Computation Handbook, Volume 1 Mikhail J. Atallah, Marina Blanton, 2009-11-20 Algorithms and Theory of Computation Handbook Second Edition General Concepts and Techniques provides an up to date compendium of fundamental computer science topics and techniques It also illustrates how the topics

and techniques come together to deliver efficient solutions to important practical problems Along with updating and revising many

Turing Computability Robert I. Soare, 2016-06-20 Turing's famous 1936 paper introduced a formal definition of a computing machine a Turing machine This model led to both the development of actual computers and to computability theory the study of what machines can and cannot compute This book presents classical computability theory from Turing and Post to current results and methods and their use in studying the information content of algebraic structures models and their relation to Peano arithmetic The author presents the subject as an art to be practiced and an art in the aesthetic sense of inherent beauty which all mathematicians recognize in their subject Part I gives a thorough development of the foundations of computability from the definition of Turing machines up to finite injury priority arguments Key topics include relative computability and computably enumerable sets those which can be effectively listed but not necessarily effectively decided such as the theorems of Peano arithmetic Part II includes the study of computably open and closed sets of reals and basis and nonbasis theorems for effectively closed sets Part III covers minimal Turing degrees Part IV is an introduction to games and their use in proving theorems Finally Part V offers a short history of computability theory The author has honed the content over decades according to feedback from students lecturers and researchers around the world Most chapters include exercises and the material is carefully structured according to importance and difficulty The book is suitable for advanced undergraduate and graduate students in computer science and mathematics and researchers engaged with computability and mathematical logic

1989 Lectures In Complex Systems (volume Ii) Erica Jen, 1990-01-21 1989 Lectures in Complex Systems is an important introduction for the emerging field of complex systems Topics covered in the book include problems in computational complexity chaotic behavior and prediction chemical dynamics cellular automata and lattice gases disordered systems parallel processing algorithms morphogenesis and computational and experimental neurobiology The understanding of scientific phenomena derived from traditional approaches is combined with the insights gained from a new view of complexity Emphasis is given to such concepts as order chaos randomness nonlinearity computability collective phenomena and emergent structures The volume is a comprehensive treatise that presents the work of researchers whose study of specific problems in mathematics physics chemistry biology and computer science is interlaced throughout by curiosity about the nature and mechanisms of complex behavior This proceedings volume is based on the 1989 Complex Systems Summer School at St John's College in Santa Fe New Mexico It complements subjects covered in Lectures in the Sciences of Complexity Addison Wesley 1989 edited by Daniel L Stern and based on the 1988 Complex Systems Summer School

Algorithms and Theory of Computation Handbook - 2 Volume Set Mikhail J. Atallah, Marina Blanton, 2022-05-29 Algorithms and Theory of Computation Handbook Second Edition in a two volume set provides an up to date compendium of fundamental computer science topics and techniques It also illustrates how the topics and techniques come together to deliver efficient solutions to important practical problems New to the Second Edition Along with updating

and revising many of the existing chapters this second edition contains more than 20 new chapters This edition now covers external memory parameterized self stabilizing and pricing algorithms as well as the theories of algorithmic coding privacy and anonymity databases computational games and communication networks It also discusses computational topology computational number theory natural language processing and grid computing and explores applications in intensity modulated radiation therapy voting DNA research systems biology and financial derivatives This best selling handbook continues to help computer professionals and engineers find significant information on various algorithmic topics The expert contributors clearly define the terminology present basic results and techniques and offer a number of current references to the in depth literature They also provide a glimpse of the major research issues concerning the relevant topics

Theorem Proving in Higher Order Logics Joakim von Wright, Jim Grundy, John Harrison, 1996-08-07 This book constitutes the refereed proceedings of the 9th International Conference on Theorem Proving in Higher Order Logics TPHOL 96 held in Turku Finland in August 1996 The 27 revised full papers included together with one invited paper were carefully selected from a total of 46 submissions The topics addressed are theorem proving technology proof automation and decision procedures mechanized theorem proving extensions of higher order logics integration of external tools novel applications and others All in all the volume is an up to date report on the state of the art in this increasingly active field

Computability Theory: an Introduction Neil D. Jones, 1973

Theory of Computation J. Glenn Brookshear, 1989 Preliminaries Finite automata and regular languages Pushdown automata and context free languages Turing machines and phrase structure languages Computability Complexity Appendices

Turing's Legacy Rod Downey, 2014-05 A collection of essays celebrating the influence of Alan Turing's work in logic computer science and related areas

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