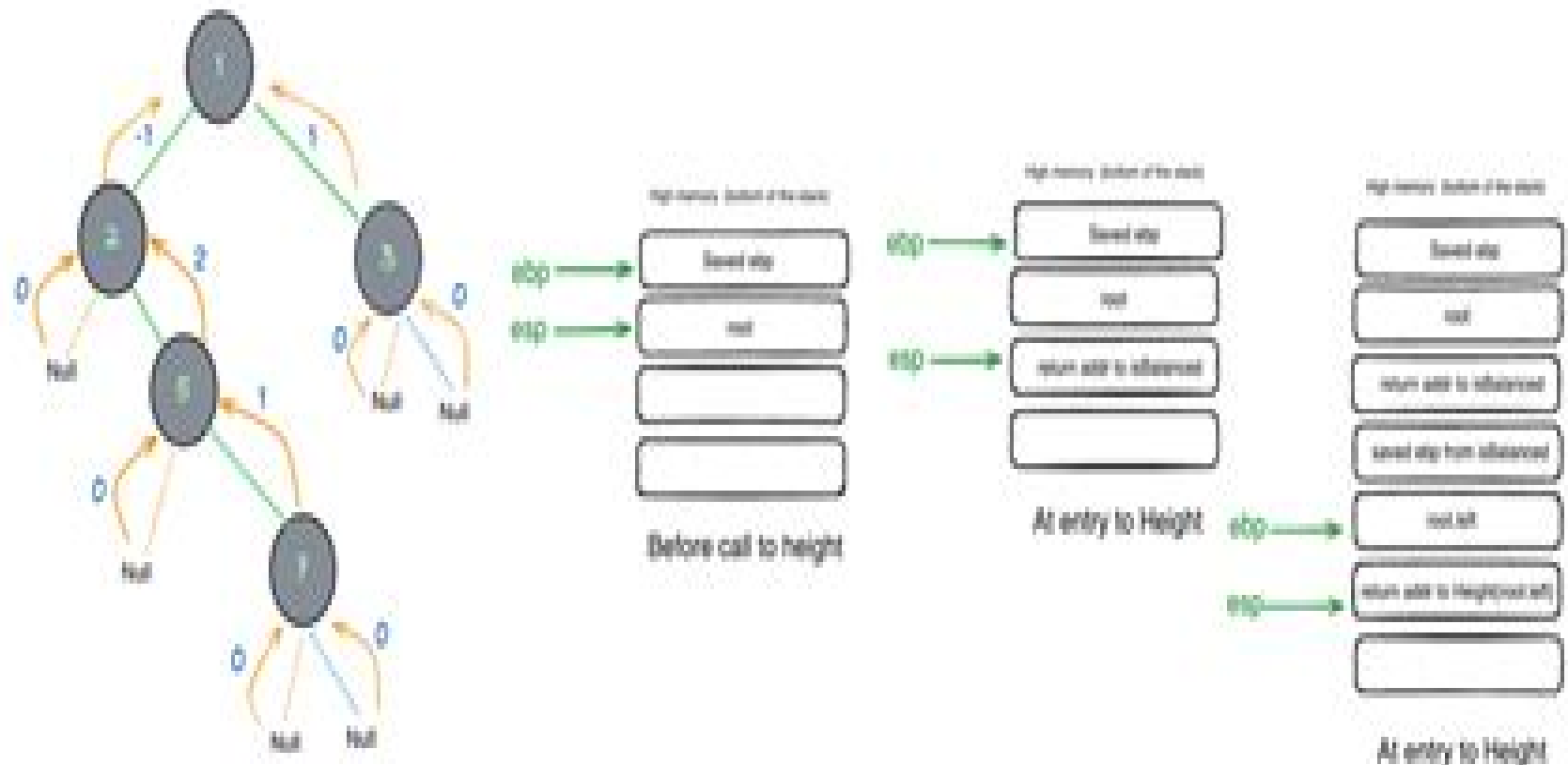# Recursion Theory and Recursive Functions

Recursive Function Theory

P. Odifreddi

Recursive Function Theory:

Computability Nigel Cutland,1980-06-19 What can computers do in principle What are their inherent theoretical limitations These are questions to which computer scientists must address themselves 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 intuitively a function whose values can be calculated in an effective or automatic way This book is an introduction to computability theory or recursion theory as it is traditionally known to mathematicians Dr Cutland begins with a mathematical characterisation of computable functions using a simple idealised computer a register machine after some comparison with other characterisations he develops the mathematical theory including a full discussion of non computability and undecidability and the theory of recursive and recursively enumerable sets The later chapters provide an introduction to more advanced topics such as G del s incompleteness theorem degrees of unsolvability the Recursion theorems and the theory of complexity of computation Computability is thus a branch of mathematics which is of relevance also to computer scientists and philosophers Mathematics students with no prior knowledge of the subject and computer science students who wish to supplement their practical expertise with some theoretical background will find this book of use and interest   **An Early History of Recursive Functions and Computability** Rod Adams,2011 Traces the development of recursive functions from their origins in the late nineteenth century to the mid 1930s with particular emphasis on the work and influence of Kurt G del   Computability Nigel J. Cutland,1980   *Computability* Nigel Cutland,2000   **Computability** Nigel J. Cutland,1980   *Recursive function theory* Symposium on Recursive Function Theory, New York, 1961,1962

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   *Theory of Recursive Functions and Effective Computability* Hartley Rogers,1967

Enumerability · Decidability Computability Hans Hermes,2012-12-06 Once we have accepted a precise replacement of the concept of algo rithm it becomes possible to attempt the problem whether there exist well defined collections of problems

which cannot be handled by algo rithms 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 mathe matics 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

Recursive Function Theory and Logic Ann Yasuhara,1971 *Recursion on the Countable Functionals* D. Normann,2006-12-08 **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 im portant 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 unsuc cessful 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 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 Recursive Function Theory Robin O. Gandy,1967

Theories of Computability Nicholas Pippenger,1997-05-28 A mathematically sophisticated introduction to Turing s theory Boolean functions automata and formal languages **Computational Foundations of Basic Recursive Function Theory** Cornell University. Dept. of Computer Science,R. L. Constable,S. F. Smith,1988 The theory of computability or basic recursive function theory as it is often called is usually motivated and developed using Church s Thesis Here we show that there is an alternative computability theory in which some of the basic results on unsolvability become more absolute results on completeness become simpler and many of the central concepts become more abstract In this approach computations are

viewed as mathematical objects and the major theorems in recursion theory may be classified according to which axioms about computation are needed to prove them **Recursive Function Theory** ,1962 **Classical Recursion Theory** P. Odifreddi,1992-02-04 1988 marked the first centenary of Recursion Theory since Dedekind s 1888 paper on the nature of number Now available in paperback this book is both a comprehensive reference for the subject and a textbook starting from first principles Among the subjects covered are various equivalent approaches to effective computability and their relations with computers and programming languages a discussion of Church s thesis a modern solution to Post s problem global properties of Turing degrees and a complete algebraic characterization of many one degrees Included are a number of applications to logic in particular G del s theorems and to computer science for which Recursion Theory provides the theoretical foundation **General Recursion Theory** Jens E. Fenstad,2017-03-02 Since their inception the Perspectives in Logic and Lecture Notes in Logic series have published seminal works by leading logicians Many of the original books in the series have been unavailable for years but they are now in print once again In this volume the tenth publication in the Perspectives in Logic series Jens E Fenstad takes an axiomatic approach to present a unified and coherent account of the many and various parts of general recursion theory The main core of the book gives an account of the general theory of computations The author then moves on to show how computation theories connect with and unify other parts of general recursion theory Some mathematical maturity is required of the reader who is assumed to have some acquaintance with recursion theory This book is ideal for a second course in the subject **Some Recursive Function Theory and Certain of Its Related Topics** Albert Alkins Mullin,1960 Reflexive Structures Luis E. Sanchis,2012-12-06 Reflexive Structures An Introduction to Computability Theory is concerned with the foundations of the theory of recursive functions The approach taken presents the fundamental structures in a fairly general setting but avoiding the introduction of abstract axiomatic domains Natural numbers and numerical functions are considered exclusively which results in a concrete theory conceptually organized around Church s thesis The book develops the important structures in recursive function theory closure properties reflexivity enumeration and hyperenumeration Of particular interest is the treatment of recursion which is considered from two different points of view via the minimal fixed point theory of continuous transformations and via the well known stack algorithm Reflexive Structures is intended as an introduction to the general theory of computability It can be used as a text or reference in senior undergraduate and first year graduate level classes in computer science or mathematics

Whispering the Techniques of Language: An Mental Journey through **Recursive Function Theory**

In a digitally-driven earth wherever screens reign great and instant conversation drowns out the subtleties of language, the profound secrets and psychological nuances hidden within words frequently move unheard. However, nestled within the pages of **Recursive Function Theory** a charming fictional prize blinking with natural emotions, lies an extraordinary journey waiting to be undertaken. Published by an experienced wordsmith, this wonderful opus encourages readers on an introspective journey, gently unraveling the veiled truths and profound affect resonating within the cloth of each and every word. Within the mental depths with this poignant evaluation, we can embark upon a heartfelt exploration of the book is primary styles, dissect its fascinating writing fashion, and succumb to the effective resonance it evokes heavy within the recesses of readers hearts.

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