



Vasco Brattka
Peter Hertling *Editors*

Handbook of Computability and Complexity in Analysis



Springer

Computability And Complexity In Analysis Computability And Complexity In Analysis

**Vasco Brattka, Ludwig Staiger, Klaus
Weihrauch**



Computability And Complexity In Analysis Computability And Complexity In Analysis:

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 in Analysis**

International Conference on Computability and Complexity in Analysis, 2006 *Computable Analysis* Klaus Weihrauch, 2012-12-06 Is the exponential function computable? Are union and intersection of closed subsets of the real plane computable? Are differentiation and integration computable operators? Is zero-finding for complex polynomials computable? Is the Mandelbrot set decidable? And in case of computability, what is the computational complexity? Computable analysis supplies exact definitions for these and many other similar questions and tries to solve them. Merging fundamental concepts of analysis and recursion theory to a new exciting theory, this book provides a solid basis for studying various aspects of computability and complexity in analysis. It is the result of an introductory course given for several years and is written in a style suitable for graduate level and senior students in computer science and mathematics. Many examples illustrate the new concepts, while numerous exercises of varying difficulty extend the material and stimulate readers to work actively on the text. **Computability and Complexity in Analysis** Jens Blanck, Vasco Brattka, 2001-05-23 This book constitutes the thoroughly refereed post-proceedings of the 4th International Workshop on Computability and Complexity in Analysis CCA 2000 held in Swansea, UK, in September 2000. The 23 revised full papers presented together with a report on a competition of exact real arithmetic systems were carefully selected from 28 papers accepted for presentation during the workshop. The book presents a cross-section on current research on computability and complexity in analysis. **Computability and Complexity in Analysis** (272). Jens Blanck, Vasco Brattka, Peter Hertling, Klaus Weihrauch, 2000 **Computability and**

Complexity in Analysis ,2010 **Computation and Logic in the Real World** S. Barry Cooper,2007-06-11 This book constitutes the refereed proceedings of the Third International Conference on Computability in Europe CiE 2007 held in Sienna Italy in June 2007 The 50 revised full papers presented together with 36 invited papers were carefully reviewed and selected from 167 submissions Workshop on Computability and Complexity in Analysis Ker-I. Ko,Klaus Weihrauch,1995

Proceedings of the Sixth Workshop on Computability and Complexity in Analysis Vasco Brattka,Ludwig Staiger,Klaus Weihrauch,2005 *New Computational Paradigms* S.B. Cooper,Benedikt Löwe,Andrea Sorbi,2007-11-28 This superb exposition of a complex subject examines new developments in the theory and practice of computation from a mathematical perspective with topics ranging from classical computability to complexity from biocomputing to quantum computing This book is suitable for researchers and graduate students in mathematics philosophy and computer science with a special interest in logic and foundational issues Most useful to graduate students are the survey papers on computable analysis and biological computing Logicians and theoretical physicists will also benefit from this book

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