

Peter Bürgisser
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Algebraic Complexity Theory

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With 21 Figures



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Algebraic Complexity Theory

**Peter Bürgisser, Michael Clausen, Amin
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Algebraic Complexity Theory Peter Bürgisser, Michael Clausen, Mohammad A. Shokrollahi, 2013-03-14 The algorithmic solution of problems has always been one of the major concerns of mathematics. For a long time such solutions were based on an intuitive notion of algorithm. It is only in this century that metamathematical problems have led to the intensive search for a precise and sufficiently general formalization of the notions of computability and algorithm. In the 1930s a number of quite different concepts for this purpose were proposed such as Turing machines, WHILE programs, recursive functions, Markov algorithms, and Thue systems. All these concepts turned out to be equivalent, a fact summarized in Church's thesis, which says that the resulting definitions form an adequate formalization of the intuitive notion of computability. This had and continues to have an enormous effect. First of all, with these notions it has been possible to prove that various problems are algorithmically unsolvable. Among of group these undecidable problems are the halting problem, the word problem, theory of the Post correspondence problem, and Hilbert's tenth problem. Secondly, concepts like Turing machines and WHILE programs had a strong influence on the development of the first computers and programming languages. In the era of digital computers the question of finding efficient solutions to algorithmically solvable problems has become increasingly important. In addition, the fact that some problems can be solved very efficiently while others seem to defy all attempts to find an efficient solution has called for a deeper understanding of the intrinsic computational difficulty of problems.

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Algebraic Complexity Theory Joachim Von zur Gathen, 1988

Independence in Algebraic Complexity

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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

Applied Algebra, Algebraic Algorithms and Error-Correcting Codes Llorenç Huguet, 1989-06-14 The present volume contains the proceedings of the AAEECC 5 Conference held at Menorca Balearic Islands June 15 19 1987 The annual International AAEECC Conference covers a range of topics related to Applied Algebra Error Correcting Codes Finite Algebraic Structures Computational Methods and Complexity in Algebra and Geometry For the AAEECC 5 Conference 73 papers were presented Out of these thirty papers were selected for publication in the proceedings They deal with topics such as error correcting codes concerning problems of covering radius decoding methods expert systems and general results in coding theory computational algebra Gröbner basis complexity finite algebra and graphs The proceedings of the 6th conference are published as Vol 357 of the Lecture Notes in Computer Science

Finite Fields: Theory and Computation Igor Shparlinski, 2013-03-09 This book is mainly devoted to some computational and algorithmic problems in finite fields such as for example polynomial factorization finding irreducible and primitive polynomials the distribution of these primitive polynomials and of primitive points on elliptic curves constructing bases of various types and new applications of finite fields to other areas of mathematics For completeness we include two special chapters on some recent advances and applications of the theory of congruences optimal coefficients congruential pseudo random number generators modular arithmetic etc and computational number theory primality testing factoring integers computation in algebraic number theory etc The problems considered here have many applications in Computer Science Coding Theory Cryptography Numerical Methods and so on There are a few books devoted to more general questions but the results contained in this book have not till now been collected under one cover In the present work the author has attempted to point out new links among different areas of the theory of finite fields It contains many very important results which previously could be found only in widely scattered and hardly available conference proceedings and journals In particular we extensively review results which originally appeared only in Russian and are not well known to mathematicians outside the former USSR

On Numerical Invariants in Algebraic Complexity Theory Martin Lotz, 2005 *Computer Algebra Handbook* Johannes Grabmeier, Erich Kaltofen, Volker Weispfenning, 2012-12-06 Two ideas lie gleaming on the jeweler's velvet The first is the calculus the second the algorithm The calculus and the rich body of mathematical analysis to which it gave rise made modern science possible

but it has been the algorithm that has made possible the modern world David Berlinski The Advent of the Algorithm First there was the concept of integers then there were symbols for integers I II III 1111 fttt what might be called a sticks and stones representation I II III IV V Roman numerals 1 2 3 4 5 Arabic numerals etc Then there were other concepts with symbols for them and algorithms sometimes for manipulating the new symbols Then came collections of mathematical knowledge tables of mathematical computations theorems of general results Soon after algorithms came devices that provided assistance for carrying out computations Then mathematical knowledge was organized and structured into several related concepts and symbols logic algebra analysis topology algebraic geometry number theory combinatorics etc This organization and abstraction lead to new algorithms and new fields like universal algebra But always our symbol systems reflected and influenced our thinking our concepts and our algorithms

Computer Science - Theory and Applications
Rahul Santhanam, Daniil Musatov, 2021-06-16 This book constitutes the proceedings of the 16th International Computer Science Symposium in Russia CSR 2021 held in Sochi Russia in June July 2021 The 28 full papers were carefully reviewed and selected from 68 submissions The papers cover a broad range of topics such as formal languages and automata theory geometry and discrete structures theory and algorithms for application domains and much more

Applied Algebra, Algebraic Algorithms, and Error-correcting Codes, 1995

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