

Algorithms
and Computation
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Peter Bürgisser

**Completeness
and Reduction
in Algebraic
Complexity Theory**



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Algebraic Complexity Theory

**Peter Bürgisser, Michael
Clausen, Mohammad A. Shokrollahi**

Algebraic Complexity Theory:

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, 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. **Completeness and Reduction**

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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 1 1 1 1 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

Applied Algebra, Algebraic Algorithms and Error-Correcting Codes Llorenç Huguet, 1989-06-14 The present volume contains the proceedings of the AAECC 5 Conference held at Menorca Balearic Islands June 15 19 1987 The annual International AAECC 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 AAECC 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

SOFSEM 2012: Theory and Practice of Computer Science Maria

Bielikova, Gerhard Friedrich, Georg Gottlob, Stefan Katzenbeisser, György Turán, 2012-01-18 This book constitutes the refereed proceedings of the 38th Conference on Current Trends in Theory and Practice of Computer Science SOFSEM 2012 held in pindler v Ml n Czech Republic in January 2012 The 43 revised papers presented in this volume were carefully reviewed and selected from 121 submissions The book also contains 11 invited talks 10 of which are in full paper length The contributions are organized in topical sections named foundations of computer science software and Web engineering cryptography security and verification and artificial intelligence **Computer Algebra in Scientific Computing** Vladimir P.

Gerdt, Wolfram Koepf, Werner M. Seiler, Evgenii V. Vorozhtsov, 2016-09-08 This book constitutes the proceedings of the 18th International Workshop on Computer Algebra in Scientific Computing CASC 2016 held in Bucharest Romania in September 2016 The 32 papers presented in this volume were carefully reviewed and selected from 39 submissions They deal with cutting edge research in all major disciplines of Computer Algebra **European Congress of Mathematics, Amsterdam, 14-18 July, 2008** André C. M. Ran, 2010 The European Congress of Mathematics held every four years has established itself as a major international mathematical event Following those in Paris 1992 Budapest 1996 Barcelona 2000 and Stockholm 2004 the Fifth European Congress of Mathematics 5ECM took place in Amsterdam The Netherlands July 14 18 2008 with about 1000 participants from 68 different countries Ten plenary and thirty three invited lectures were delivered Three science lectures outlined applications of mathematics in other sciences climate change quantum information theory and population dynamics As in the four preceding EMS congresses ten EMS prizes were granted to very promising young mathematicians In addition the Felix Klein Prize was awarded for the second time for an application of mathematics to a concrete and difficult industrial problem There were twenty two minisymposia spread over the whole mathematical area Two round table meetings were organized one on industrial mathematics and one on mathematics and developing countries As part of the 44th Nederlands Mathematisch Congres which was embedded in 5ECM the so called Brouwer lecture was presented It is the Netherlands most prestigious award in mathematics organized every three years by the Royal Dutch Mathematical Society Information about Brouwer was given in an invited historical lecture during the congress These proceedings contain a selection of the contributions to the congress providing a permanent record of the best of what mathematics offers today

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