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Algebraic Complexity Theory

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preface the editors describe algebraic combinatorics as the area of combinatorics concerned with exact as opposed to approximate results and which puts emphasis on interaction with other areas of mathematics such as algebra topology geometry and physics It is a vibrant area which saw several major developments in recent years The goal of the 2022 conference Open Problems in Algebraic Combinatorics 2022 was to provide a forum for exchanging promising new directions and ideas The current volume includes contributions coming from the talks at the conference as well as a few other contributions written specifically for this volume The articles cover the majority of topics in algebraic combinatorics with the aim of presenting recent important research results and also important open problems and conjectures encountered in this research The editors hope that this book will facilitate the exchange of ideas in algebraic combinatorics **On Numerical Invariants in Algebraic Complexity Theory** Martin Lotz,2005 **Applied Algebra, Algebraic Algorithms and Error-Correcting Codes** Llorenc 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 Gr bner 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 in clude two special chapters on some recent advances and applications of the theory of congruences optimal coefficients congruential pseudo random number gener ators 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 Cod ing 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 *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 sec ond 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 ma nipulating the new symbols Then came collections of mathematical knowledge tables of mathematical computations theorems of general results Soon after algorithms came devices that provided assistancefor carryingout 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 **Aspects of Complexity** Rod Downey,Denis R. Hirschfeldt,2011-05-02 The book contains 8 detailed expositions of the lectures given at the Kaikoura 2000 Workshop on Computability Complexity and Computational Algebra Topics covered include basic models and questions of complexity theory the Blum Shub Smale model of computation probability theory applied to algorithmics randomized alogrithms parametric complexity Kolmogorov complexity of finite strings computational group theory counting problems and canonical models of ZFC providing a solution to continuum hypothesis The text addresses students in computer science or mathematics and professionals in these areas who seek a complete but gentle introduction to a wide range of techniques concepts and research horizons in the area of computational complexity in a broad sense

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