



# Algorithmic And Combinatorial Algebra

**Veronika Pillwein, Carsten Schneider**



## **Algorithmic And Combinatorial Algebra:**

*Algorithmic and Combinatorial Algebra* L a Bokut', G P Kukin, 1994-05-31

## **Algorithmic Combinatorics:**

**Enumerative Combinatorics, Special Functions and Computer Algebra** Veronika Pillwein, Carsten

Schneider, 2020-09-28 The book is centered around the research areas of combinatorics special functions and computer algebra What these research fields share is that many of their outstanding results do not only have applications in

Mathematics but also other disciplines such as computer science physics chemistry etc A particular charm of these areas is how they interact and influence one another For instance combinatorial or special functions techniques have motivated the development of new symbolic algorithms In particular first proofs of challenging problems in combinatorics and special functions were derived by making essential use of computer algebra This book addresses these interdisciplinary aspects

Algorithmic aspects are emphasized and the corresponding software packages for concrete problem solving are introduced Readers will range from graduate students researchers to practitioners who are interested in solving concrete problems within mathematics and other research disciplines *Combinatorial and Algorithmic Mathematics* Baha Alzalg, 2024-10-21

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algorithms and optimization It also caters to scientists across diverse disciplines that incorporate algorithms and academics and researchers who wish to better understand some modern optimization methodologies

*Algorithmic Algebraic Combinatorics and Gröbner Bases* Mikhail Klin, Gareth A. Jones, Aleksandar Jurisic, Mikhail Muzychuk, Ilia Ponomarenko, 2009-12-24 This collection of tutorial and research papers introduces readers to diverse areas of modern pure and applied algebraic combinatorics and finite geometries There is special emphasis on algorithmic aspects and the use of the theory of Gröbner bases

**Algorithmic Combinatorics on Partial Words** Francine Blanchet-Sadri, 2007-11-19 The discrete mathematics and theoretical computer science communities have recently witnessed explosive growth in the area of algorithmic combinatorics on words The next generation of research on combinatorics of partial words promises to have a substantial impact on molecular biology nanotechnology data communication and DNA computing Delving

**Recent Advances in Algorithms and Combinatorics** Bruce A. Reed, Claudia L. Linhares-Sales, 2012-06-12 Excellent authors such as Lovasz one of the five best combinatorialists in the world Thematic linking that makes it a coherent collection Will appeal to a variety of communities such as mathematics computer science and operations research

*Algorithmic Probability and Combinatorics* Manuel Lladser, 2010-07-30 This volume contains the proceedings of the AMS Special Sessions on Algorithmic Probability and Combinatorics held at DePaul University on October 5 6 2007 and at the University of British Columbia on October 4 5 2008 This volume collects cutting edge research and expository on algorithmic probability and combinatorics It includes contributions by well established experts and younger researchers who use generating functions algebraic and probabilistic methods as well as asymptotic analysis on a daily basis Walks in the quarter plane and random walks quantum rotor and self avoiding permutation tableaux and random permutations are considered In addition articles in the volume present a variety of saddle point and geometric methods for the asymptotic analysis of the coefficients of single and multivariable generating functions associated with combinatorial objects and discrete random structures The volume should appeal to pure and applied mathematicians as well as mathematical physicists in particular anyone interested in computational aspects of probability combinatorics and enumeration Furthermore the expository or partly expository papers included in this volume should serve as an entry point to this literature not only to experts in other areas but also to graduate students

**An Algorithmic Theory of Numbers, Graphs, and Convexity** Laszlo Lovasz, 1986-01-01 A study of how complexity questions in computing interact with classical mathematics in the numerical analysis of issues in algorithm design Algorithmic designers concerned with linear and nonlinear combinatorial optimization will find this volume especially useful Two algorithms are studied in detail the ellipsoid method and the simultaneous diophantine approximation method Although both were developed to study on a theoretical level the feasibility of computing some specialized problems in polynomial time they appear to have practical applications The book first describes use of the simultaneous diophantine method to develop sophisticated rounding procedures Then a model is described to compute upper and lower bounds on various measures of

convex bodies Use of the two algorithms is brought together by the author in a study of polyhedra with rational vertices The book closes with some applications of the results to combinatorial optimization **Combinatorial Algorithms** Donald L. Kreher, Douglas R. Stinson, 1998-12-18 This textbook thoroughly outlines combinatorial algorithms for generation enumeration and search Topics include backtracking and heuristic search methods applied to various combinatorial structures such as Combinations Permutations Graphs Designs Many classical areas are covered as well as new research topics not included in most existing texts such as Group algorithms Graph isomorphism Hill climbing Heuristic search algorithms This work serves as an exceptional textbook for a modern course in combinatorial algorithms providing a unified and focused collection of recent topics of interest in the area The authors synthesizing material that can only be found scattered through many different sources introduce the most important combinatorial algorithmic techniques thus creating an accessible comprehensive text that students of mathematics electrical engineering and computer science can understand without needing a prior course on combinatorics **Algorithms in Combinatorial Design Theory** C.J. Colbourn, M.J.

Colbourn, 1985-01-01 The scope of the volume includes all algorithmic and computational aspects of research on combinatorial designs Algorithmic aspects include generation isomorphism and analysis techniques both heuristic methods used in practice and the computational complexity of these operations The scope within design theory includes all aspects of block designs Latin squares and their variants pairwise balanced designs and projective planes and related geometries

**Recent Advances in Algorithms and Combinatorics** Bruce A. Reed, Claudia L. Linhares-Sales, 2006-05-17

Combinatorics is one of the fastest growing fields of mathematics In large measure this is because many practical problems can be modeled and then efficiently solved using combinatorial theory This real world motivation for studying algorithmic combinatorics has led not only to the development of many software packages but also to some beautiful mathematics which has no direct application to applied problems In this volume we highlight some exciting recent developments in algorithmic combinatorics Most practical applications of algorithmic combinatorics would be possible without the use of the computer As computers become ever more powerful more and more applications become possible Computational biology is one example of a relatively new field in which algorithmic combinatorics plays a key role The chapter by Sagot and Wakabayashi in this volume discusses how combinatorial tools can be used to search for patterns in DNA and protein sequences The information technology revolution has not only allowed for the resolution of practical problems using combinatorial techniques it has also been the source of many new combinatorial problems One example is radio channel assignment In this problem we have a number of transmitters each of which must handle a number of calls Each call must be assigned a frequency in such a way that interference is avoided thus calls handled by the same transmitter are assigned different frequencies as are calls handled by transmitters which are near each other The explosive growth in the use of the frequency spectrum due to e.g. mobile telephone networks has made it a very valuable resource **Mathematics and Computer Science** Daniele

Gardy, Abdelkader Mokkadem, 2012-12-06 This is the first book where mathematics and computer science are directly confronted and joined to tackle intricate problems in computer science with deep mathematical approaches It contains a collection of refereed papers presented at the Colloquium on Mathematics and Computer Science held at the University of Versailles St Quentin on September 18 20 2000 The colloquium was a meeting place for researchers in mathematics and computer science and thus an important opportunity to exchange ideas and points of view and to present new approaches and new results in the common areas such as algorithms analysis trees combinatorics optimization performance evaluation and probabilities The book is intended for a large public in applied mathematics discrete mathematics and computer science including researchers teachers graduate students and engineers It provides an overview of the current questions in computer science and related modern mathematical methods The range of applications is very wide and reaches beyond computer science

Algorithmic Aspects of Combinatorics, 2011-10-10 Algorithmic Aspects of Combinatorics Combinatorial Complexes P.H. Sellers, 2013-03-07 It isn't that they can't see the Approach your problems from the right end and begin with the solution It is that they can't see answers Then one day perhaps the problem you will find the final question The Hermit Clad in Crane Feathers G K Chesterton The scandal of in R Van Gulik's The Chinese Maze Father Brown The point of a Murders pin Growing specialization and diversification have brought a host of monographs and textbooks on increasingly specialized topics However the tree of knowledge of mathematics and related fields does not grow only by putting forth new branches It also happens quite often in fact that branches which were thought to be completely disparate are suddenly seen to be related Further the kind and level of sophistication of mathematics applied in various sciences has changed drastically in recent years measure theory is used non trivially in regional and theoretical economics algebraic geometry interacts with physics the Minkowsky lemma coding theory and the structure of water meet one another in packing and covering theory quantum fields crystal defects and mathematical programming profit from homotopy theory Lie algebras are relevant to filtering and prediction and electrical engineering can use Stein spaces

Handbook of Discrete and Combinatorial Mathematics Kenneth H. Rosen, 2017-10-19 Handbook of Discrete and Combinatorial Mathematics provides a comprehensive reference volume for mathematicians computer scientists engineers as well as students and reference librarians The material is presented so that key information can be located and used quickly and easily Each chapter includes a glossary Individual topics are covered in sections and subsections within chapters each of which is organized into clearly identifiable parts definitions facts and examples Examples are provided to illustrate some of the key definitions facts and algorithms Some curious and entertaining facts and puzzles are also included Readers will also find an extensive collection of biographies This second edition is a major revision It includes extensive additions and updates Since the first edition appeared in 1999 many new discoveries have been made and new areas have grown in importance which are covered in this edition

**Combinatorial Algorithms** Te Chiang Hu, Man-tak Shing, 2002-01-01 Newly enlarged updated second edition of a

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**Combinatorial Geometry and Its Algorithmic Applications** János Pach, Micha Sharir, 2009 Based on a lecture series given by the authors at a satellite meeting of the 2006 International Congress of Mathematicians and on many articles written by them and their collaborators this volume provides a comprehensive up to date survey of several core areas of combinatorial geometry It describes the beginnings of the subject going back to the nineteenth century if not to Euclid and explains why counting incidences and estimating the combinatorial complexity of various arrangements of geometric objects became the theoretical backbone of computational geometry in the 1980s and 1990s The combinatorial techniques outlined in this book have found applications in many areas of computer science from graph drawing through hidden surface removal and motion planning to frequency allocation in cellular networks Combinatorial Geometry and Its Algorithmic Applications is intended as a source book for professional mathematicians and computer scientists as well as for graduate students interested in combinatorics and geometry Most chapters start with an attractive simply formulated but often difficult and only partially answered mathematical question and describes the most efficient techniques developed for its solution The text includes many challenging open problems figures and an extensive bibliography

**BOOK JACKET Algorithms and Classification in Combinatorial Group Theory** Gilbert Baumslag, Charles F. III Miller, 2012-12-06 The papers in this volume are the result of a workshop held in January 1989 at the Mathematical Sciences Research Institute Topics covered include decision problems finitely presented simple groups combinatorial geometry and homology and automatic groups and related topics

*Combinatorial Optimization* Bernhard Korte, Jens Vygen, 2007-11-04 Now fully updated in a third edition this is a comprehensive textbook on combinatorial optimization It puts special emphasis on theoretical results and algorithms with provably good performance in contrast to heuristics The book contains complete but concise proofs also for many deep results some of which have not appeared in print before Recent topics are covered as well and numerous references are provided This third edition contains a new chapter on facility location problems an area which has been extremely active in the past few years Furthermore there are several new sections and further material on various topics New exercises and

updates in the bibliography were added  
Srinivasa Rao,1986

Workshop on Mathematics of Computer Algorithms (May 7-15, 1986) K.

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