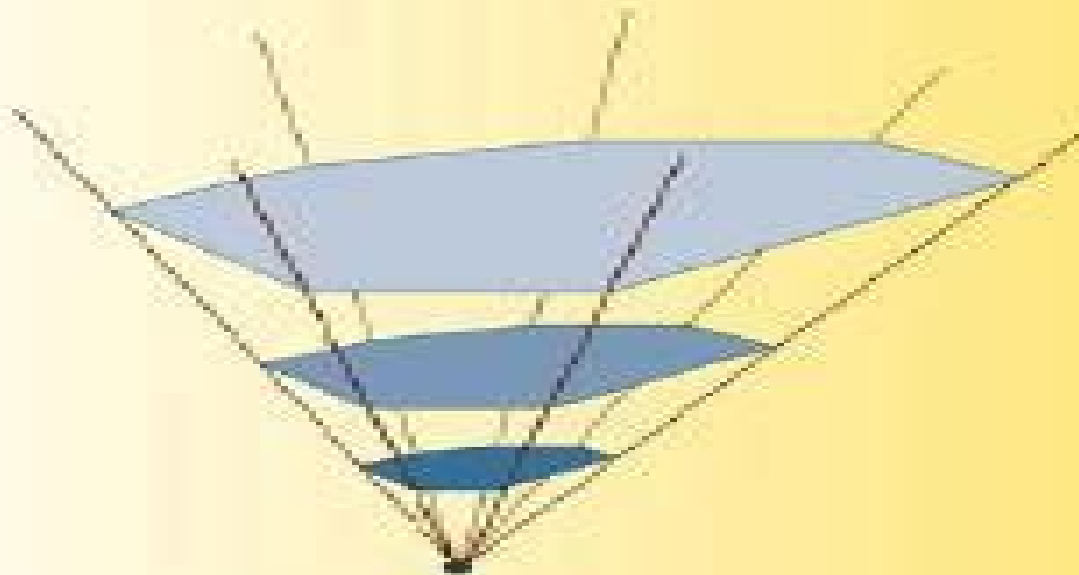


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COMPUTING THE CONTINUOUS DISCRETELY

Integer-Point Enumeration in Polyhedra



Computing The Continuous Discretely Computing The Continuous Discretely

Yi-Tong Ma



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with Lattice Polytopes Alexander M. Kasprzyk, Benjamin Nill, 2022-06-08 This book collects together original research and survey articles highlighting the fertile interdisciplinary applications of convex lattice polytopes in modern mathematics Covering a diverse range of topics including algebraic geometry mirror symmetry symplectic geometry discrete geometry and algebraic combinatorics the common theme is the study of lattice polytopes These fascinating combinatorial objects are a cornerstone of toric geometry and continue to find rich and unforeseen applications throughout mathematics The workshop Interactions with Lattice Polytopes assembled many top researchers at the Otto von Guericke University Magdeburg in 2017 to discuss the role of lattice polytopes in their work and many of their presented results are collected in this book Intended to be accessible these articles are suitable for researchers and graduate students interested in learning about some of the wide ranging interactions of lattice polytopes in pure mathematics **Integer Points in Polyhedra -- Geometry, Number**

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articles originating from the conference The volume is a cross section of recent advances connected to lattice point questions Similar to the talks given at the conference topics range from commutative algebra to optimization from discrete geometry to statistics from mirror symmetry to geometry of numbers The book is suitable for researchers and graduate students

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The Ultimate Challenge Jeffrey C. Lagarias, 2023-04-19 The $3x+1$ problem or Collatz problem concerns the following seemingly innocent arithmetic procedure applied to integers If an integer x is odd then multiply by three and add one while if it is even then divide by two The $3x+1$ problem asks whether starting from any positive integer repeating this procedure over and over will eventually reach the number 1 Despite its simple appearance this problem is unsolved Generalizations of the problem are known to be undecidable and the problem itself is believed to be extraordinarily difficult This book reports on what is known on this problem It consists of a collection of papers which can be read independently of each other The book begins with two introductory papers one giving an overview and current status and the second giving history and basic results on the problem These are followed by three survey papers on the problem relating it to number theory and dynamical systems to Markov chains and ergodic theory and to logic and the theory of computation The next paper presents results on probabilistic models for behavior of the iteration This is followed by a paper giving the latest computational results on the problem which verify its truth for $x \leq 4 \cdot 10^{18}$ The book also reprints six early papers on the problem and related questions by L Collatz J H Conway H S M Coxeter C J Everett and R K Guy each with editorial commentary The book concludes with an annotated bibliography of work on the problem up to the year 2000 *Algebraic And Geometric*

Combinatorics On Lattice Polytopes - Proceedings Of The Summer Workshop On Lattice Polytopes Takayuki Hibi, Akiyoshi

Tsuchiya,2019-05-30 This volume consists of research papers and expository survey articles presented by the invited speakers of the Summer Workshop on Lattice Polytopes Topics include enumerative algebraic and geometric combinatorics on lattice polytopes topological combinatorics commutative algebra and toric varieties Readers will find that this volume showcases current trends on lattice polytopes and stimulates further developments of many research areas surrounding this field With the survey articles research papers and open problems this volume provides its fundamental materials for graduate students to learn and researchers to find exciting activities and avenues for further exploration on lattice polytopes

Existence of Unimodular Triangulations-Positive Results Christian Haase,2021-07-21 Unimodular triangulations of lattice polytopes arise in algebraic geometry commutative algebra integer programming and of course combinatorics In this article we review several classes of polytopes that do have unimodular triangulations and constructions that preserve their existence We include in particular the first effective proof of the classical result by Knudsen Mumford Waterman stating that every lattice polytope has a dilation that admits a unimodular triangulation Our proof yields an explicit although doubly exponential bound for the dilation factor

Women in Numbers 2 Chantal David,Matilde Lalín, Michelle Manes,2013-12-10 The second Women in Numbers workshop WIN2 was held November 6 11 2011 at the Banff International Research Station BIRS in Banff Alberta Canada During the workshop group leaders presented open problems in various areas of number theory and working groups tackled those problems in collaborations begun at the workshop and continuing long after This volume collects articles written by participants of WIN2 Survey papers written by project leaders are designed to introduce areas of active research in number theory to advanced graduate students and recent PhDs Original research articles by the project groups detail their work on the open problems tackled during and after WIN2 Other articles in this volume contain new research on related topics by women number theorists The articles collected here encompass a wide range of topics in number theory including Galois representations the Tamagawa number conjecture arithmetic intersection formulas Mahler measures Newton polygons the Dwork family elliptic curves cryptography and supercongruences WIN2 and this Proceedings volume are part of the Women in Numbers network aimed at increasing the visibility of women researchers contributions to number theory and at increasing the participation of women mathematicians in number theory and related fields This book is co published with the Centre de Recherches Mathématiques

Numbers and Figures Giancarlo Travaglini,2023-05-31 One of the great charms of mathematics is uncovering unexpected connections In Numbers and Figures Giancarlo Travaglini provides six conversations that do exactly that by talking about several topics in elementary number theory and some of their connections to geometry calculus and real life problems such as COVID 19 vaccines or fiscal frauds Each conversation is in two parts an introductory essay which provides a gentle introduction to the topic and a second section that delves deeper and requires study by the reader The topics themselves are extremely appealing and include for example Pick's theorem Simpson's paradox Farey sequences the Frobenius problem and Benford's

Law Numbers and Figures will be a useful resource for college faculty teaching Elementary Number Theory or Calculus The chapters are largely independent and could make for nice course ending projects or even lead ins to high school or undergraduate research projects The whole book would make for an enjoyable semester long independent reading course Faculty will find it entertaining bedtime reading and last but not least readers more generally will be interested in this book if they miss the accuracy and imagination found in their high school and college math courses

Automata, Languages, and Programming Fedor V. Fomin, Rusins Freivalds, Marta Kwiatkowska, David Peleg, 2013-07-03 This two volume set of LNCS 7965 and LNCS 7966 constitutes the refereed proceedings of the 40th International Colloquium on Automata Languages and Programming ICALP 2013 held in Riga Latvia in July 2013 The total of 124 revised full papers presented were carefully reviewed and selected from 422 submissions They are organized in three tracks focussing on algorithms complexity and games logic semantics automata and theory of programming and foundations of networked computation

Enumerative Combinatorics: Volume 1 Richard P. Stanley, 2012 Richard Stanley's two volume basic introduction to enumerative combinatorics has become the standard guide to the topic for students and experts alike This thoroughly revised second edition of Volume 1 includes ten new sections and more than 300 new exercises most with solutions reflecting numerous new developments since the publication of the first edition in 1986 The author brings the coverage up to date and includes a wide variety of additional applications and examples as well as updated and expanded chapter bibliographies Many of the less difficult new exercises have no solutions so that they can more easily be assigned to students The material on P partitions has been rearranged and generalized the treatment of permutation statistics has been greatly enlarged and there are also new sections on q analogues of permutations hyperplane arrangements the cd index promotion and evacuation and differential posets

Toric Varieties David A. Cox, John B. Little, Henry K. Schenck, 2024-06-25 Toric varieties form a beautiful and accessible part of modern algebraic geometry This book covers the standard topics in toric geometry a novel feature is that each of the first nine chapters contains an introductory section on the necessary background material in algebraic geometry Other topics covered include quotient constructions vanishing theorems equivariant cohomology GIT quotients the secondary fan and the minimal model program for toric varieties The subject lends itself to rich examples reflected in the 134 illustrations included in the text The book also explores connections with commutative algebra and polyhedral geometry treating both polytopes and their unbounded cousins polyhedra There are appendices on the history of toric varieties and the computational tools available to investigate nontrivial examples in toric geometry Readers of this book should be familiar with the material covered in basic graduate courses in algebra and topology and to a somewhat lesser degree complex analysis In addition the authors assume that the reader has had some previous experience with algebraic geometry at an advanced undergraduate level The book will be a useful reference for graduate students and researchers who are interested in algebraic geometry polyhedral geometry and toric varieties

Convexity from the Geometric Point of View Vitor

Balestro, Horst Martini, Ralph Teixeira, 2024-07-14 This text gives a comprehensive introduction to the common core of convex geometry. Basic concepts and tools which are present in all branches of that field are presented with a highly didactic approach. Mainly directed to graduate and advanced undergraduates, the book is self-contained in such a way that it can be read by anyone who has standard undergraduate knowledge of analysis and of linear algebra. Additionally, it can be used as a single reference for a complete introduction to convex geometry, and the content coverage is sufficiently broad that the reader may gain a glimpse of the entire breadth of the field and various subfields. The book is suitable as a primary text for courses in convex geometry and also in discrete geometry including polytopes. It is also appropriate for survey-type courses in Banach space theory, convex analysis, differential geometry, and applications of measure theory. Solutions to all exercises are available to instructors who adopt the text for coursework. Most chapters use the same structure: the first part presenting theory and the next containing a healthy range of exercises. Some of the exercises may even be considered as short introductions to ideas which are not covered in the theory portion. Each chapter has a notes section offering a rich narrative to accompany the theory, illuminating the development of ideas and providing overviews to the literature concerning the covered topics. In most cases, these notes bring the reader to the research front. The text includes many figures that illustrate concepts and some parts of the proofs, enabling the reader to have a better understanding of the geometric meaning of the ideas. An appendix containing basic and geometric measure theory collects useful information for convex geometers.

Polytopes, Rings, and K-Theory Winfried Bruns, Joseph Gubeladze, 2009-06-12 This book examines interactions of polyhedral discrete geometry and algebra. What makes this book unique is the presentation of several central results in all three areas of the exposition: from discrete geometry to commutative algebra and K-theory.

D-Finite Functions Manuel Kauers, 2023-11-08 Defined as solutions of linear differential or difference equations with polynomial coefficients, D-finite functions play an important role in various areas of mathematics. This book is a comprehensive introduction to the theory of these functions with a special emphasis on computer algebra algorithms for computing with them: algorithms for detecting relations from given data, for evaluating D-finite functions, for executing closure properties, for obtaining various kinds of explicit expressions, for factoring operators, and for definite and indefinite symbolic summation and integration are explained in detail. The book comes with batteries included in the sense that it requires no background in computer algebra, as the relevant facts from this area are summarized in the beginning. This makes the book accessible to a wide range of readers, from mathematics students who plan to work themselves on D-finite functions to researchers who want to apply the theory to their own work. Hundreds of exercises invite the reader to apply the techniques in the book and explore further aspects of the theory on their own. Solutions to all exercises are given in the appendix. When algorithms for D-finite functions came up in the early 1990s, computer proofs were met with a certain skepticism. Fortunately, these times are over, and computer algebra has become a standard tool for many mathematicians. Yet this powerful machinery is still not as widely

known as it deserves This book helps to spread the word that certain tasks can be safely delegated to a computer algebra system and also what the limitations of these techniques are

From Fourier Analysis and Number Theory to Radon Transforms and Geometry Hershel M. Farkas, Robert C. Gunning, Marvin I. Knopp, B. A. Taylor, 2012-09-18 A memorial conference for Leon Ehrenpreis was held at Temple University November 15 16 2010 In the spirit of Ehrenpreis's contribution to mathematics the papers in this volume written by prominent mathematicians represent the wide breadth of subjects that Ehrenpreis traversed in his career including partial differential equations combinatorics number theory complex analysis and a bit of applied mathematics With the exception of one survey article the papers in this volume are all new results in the various fields in which Ehrenpreis worked There are papers in pure analysis papers in number theory papers in what may be called applied mathematics such as population biology and parallel refractors and papers in partial differential equations The mature mathematician will find new mathematics and the advanced graduate student will find many new ideas to explore A biographical sketch of Leon Ehrenpreis by his daughter a professional journalist enhances the memorial tribute and gives the reader a glimpse into the life and career of a great mathematician

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