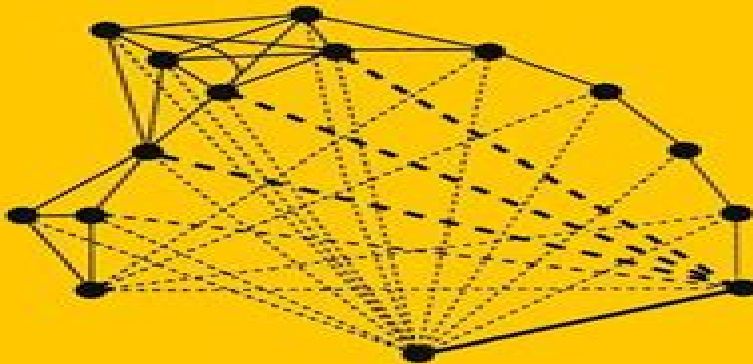




Algorithms and Combinatorics 15

Michel Marie Deza  
Monique Laurent

# Geometry of Cuts and Metrics



Springer

# Geometry Of Cuts And Metrics Algorithms And Combinatorics

**Grażyna Szkatuła, Maciej Krawczak**



## **Geometry Of Cuts And Metrics Algorithms And Combinatorics:**

**Geometry of Cuts and Metrics** Michel Marie Deza, Monique Laurent, 1997-05-20 Cuts and metrics are well known objects that arise independently but with many deep and fascinating connections in diverse fields in graph theory combinatorial optimization geometry of numbers combinatorial matrix theory statistical physics VLSI design etc This book presents a wealth of results from different mathematical disciplines in a unified comprehensive manner and establishes new and old links which cannot be found elsewhere It provides a unique and invaluable source for researchers and graduate students From the Reviews This book is definitely a milestone in the literature of integer programming and combinatorial optimization It draws from the Interdisciplinarity of these fields With knowledge about the relevant terms one can enjoy special subsections without being entirely familiar with the rest of the chapter This makes it not only an interesting research book but even a dictionary The longer one works with it the more beautiful it becomes Optima 56 1997      [Geometry of Cuts and Metrics](#) Michel Marie Deza, Monique Laurent, 2009-11-12 Cuts and metrics are well known objects that arise independently but with many deep and fascinating connections in diverse fields in graph theory combinatorial optimization geometry of numbers combinatorial matrix theory statistical physics VLSI design etc This book presents a wealth of results from different mathematical disciplines in a unified comprehensive manner and establishes new and old links which cannot be found elsewhere It provides a unique and invaluable source for researchers and graduate students From the Reviews This book is definitely a milestone in the literature of integer programming and combinatorial optimization It draws from the Interdisciplinarity of these fields With knowledge about the relevant terms one can enjoy special subsections without being entirely familiar with the rest of the chapter This makes it not only an interesting research book but even a dictionary The longer one works with it the more beautiful it becomes Optima 56 1997      *Discrete and Computational Geometry* Jin Akiyama, Mikio Kano, Masatsugu Urabe, 2003-06-29 This book constitutes the thoroughly refereed post proceedings of the Japanese Conference on Discrete Computational Geometry JCDCG 2001 held in Tokyo Japan in November 2001 The 35 revised papers presented were carefully reviewed and selected Among the topics covered are polygons and polyhedrons divisible dissections convex polygon packings symmetric subsets convex decompositions graph drawing graph computations point sets approximation Delaunay diagrams triangulations chromatic numbers complexity layer routing efficient algorithms and illumination problems      **Maximum-Entropy Sampling** Marcia Fampa, Jon Lee, 2022-10-29 This monograph presents a comprehensive treatment of the maximum entropy sampling problem MESP which is a fascinating topic at the intersection of mathematical optimization and data science The text situates MESP in information theory as the algorithmic problem of calculating a sub vector of pre specified size from a multivariate Gaussian random vector so as to maximize Shannon's differential entropy The text collects and expands on state of the art algorithms for MESP and addresses its application in the field of environmental monitoring While MESP is a central optimization problem in the theory of statistical designs

particularly in the area of spatial monitoring this book largely focuses on the unique challenges of its algorithmic side From the perspective of mathematical optimization methodology MESP is rather unique a 0 1 nonlinear program having a nonseparable objective function and the algorithmic techniques employed are highly non standard In particular successful techniques come from several disparate areas within the field of mathematical optimization for example convex optimization and duality semidefinite programming Lagrangian relaxation dynamic programming approximation algorithms 0 1 optimization e g branch and bound extended formulation and many aspects of matrix theory The book is mainly aimed at graduate students and researchers in mathematical optimization and data analytics

### **Facets of Combinatorial**

**Optimization** Michael Jünger, Gerhard Reinelt, 2013-07-03 Martin Gr tsel is one of the most influential mathematicians of our time He has received numerous honors and holds a number of key positions in the international mathematical community He celebrated his 65th birthday on September 10 2013 Martin Gr tsel s doctoral descendant tree 1983 2012 i e the first 30 years features 39 children 74 grandchildren 24 great grandchildren and 2 great great grandchildren a total of 139 doctoral descendants This book starts with a personal tribute to Martin Gr tsel by the editors Part I a contribution by his very special predecessor Manfred Padberg on Facets and Rank of Integer Polyhedra Part II and the doctoral descendant tree 1983 2012 Part III The core of this book Part IV contains 16 contributions each of which is coauthored by at least one doctoral descendant The sequence of the articles starts with contributions to the theory of mathematical optimization including polyhedral combinatorics extended formulations mixed integer convex optimization super classes of perfect graphs efficient algorithms for subtree telecenters junctions in acyclic graphs and preemptive restricted strip covering as well as efficient approximation of non preemptive restricted strip covering Combinations of new theoretical insights with algorithms and experiments deal with network design problems combinatorial optimization problems with submodular objective functions and more general mixed integer nonlinear optimization problems Applications include VLSI layout design systems biology wireless network design mean risk optimization and gas network optimization Computational studies include a semidefinite branch and cut approach for the max k cut problem mixed integer nonlinear optimal control and mixed integer linear optimization for scheduling and routing of fly in safari planes The two closing articles are devoted to computational advances in general mixed integer linear optimization the first by scientists working in industry the second by scientists working in academia These articles reflect the scientific facets of Martin Gr tsel who has set standards in theory computation and applications

*Topological Optimization and Optimal Transport* Maitine Bergounioux, Édouard Oudet, Martin Rumpf, Guillaume Carlier, Thierry Champion, Filippo Santambrogio, 2017-08-07 By discussing topics such as shape representations relaxation theory and optimal transport trends and synergies of mathematical tools required for optimization of geometry and topology of shapes are explored Furthermore applications in science and engineering including economics social sciences biology physics and image processing are covered Contents Part I Geometric issues in PDE problems related

to the infinity Laplace operator Solution of free boundary problems in the presence of geometric uncertainties Distributed and boundary control problems for the semidiscrete Cahn Hilliard Navier Stokes system with nonsmooth Ginzburg Landau energies High order topological expansions for Helmholtz problems in 2D On a new phase field model for the approximation of interfacial energies of multiphase systems Optimization of eigenvalues and eigenmodes by using the adjoint method Discrete varifolds and surface approximation Part II Weak Monge Ampere solutions of the semi discrete optimal transportation problem Optimal transportation theory with repulsive costs Wardrop equilibria long term variant degenerate anisotropic PDEs and numerical approximations On the Lagrangian branched transport model and the equivalence with its Eulerian formulation On some nonlinear evolution systems which are perturbations of Wasserstein gradient flows Pressureless Euler equations with maximal density constraint a time splitting scheme Convergence of a fully discrete variational scheme for a thin film equation Interpretation of finite volume discretization schemes for the Fokker Planck equation as gradient flows for the discrete Wasserstein distance

**On Graph Approaches to Contextuality and their Role in Quantum Theory** Barbara Amaral, Marcelo Terra Cunha, 2018-07-28 This book explores two of the most striking features of quantum theory contextuality and nonlocality using a formulation based on graph theory Quantum theory provides a set of rules to predict probabilities of different outcomes in different experimental settings and both contextuality and nonlocality play a fundamental role in interpreting the outcomes In this work the authors highlight how the graph approach can lead to a better understanding of this theory and its applications After presenting basic definitions and explaining the non contextuality hypothesis the book describes contextuality scenarios using compatibility hypergraphs It then introduces the exclusivity graph approach which relates a number of important graph theoretical concepts to contextuality It also presents open problems such as the so called Exclusivity Principle as well as a selection of important topics like sheaf theoretical approach hypergraph approach and alternative proofs of contextuality

**Handbook of Discrete and Computational Geometry** Csaba D. Toth, Joseph O'Rourke, Jacob E. Goodman, 2017-11-22 The Handbook of Discrete and Computational Geometry is intended as a reference book fully accessible to nonspecialists as well as specialists covering all major aspects of both fields The book offers the most important results and methods in discrete and computational geometry to those who use them in their work both in the academic world as researchers in mathematics and computer science and in the professional world as practitioners in fields as diverse as operations research molecular biology and robotics Discrete geometry has contributed significantly to the growth of discrete mathematics in recent years This has been fueled partly by the advent of powerful computers and by the recent explosion of activity in the relatively young field of computational geometry This synthesis between discrete and computational geometry lies at the heart of this Handbook A growing list of application fields includes combinatorial optimization computer aided design computer graphics crystallography data analysis error correcting codes geographic information systems motion planning operations research

pattern recognition robotics solid modeling and tomography      Discrete Mathematics Days 2022 Luis Felipe Tabera Alonso, 2022-07-04 El congreso Discrete Mathematics Days DMD20 22 tendr lugar del 4 al 6 de julio de 2022 en la Facultad de Ciencias de la Universidad de Cantabria Santander Espa a Este congreso internacional se centra en avances dentro del campo de la Matem tica discreta incluyendo de manera no exhaustiva Algoritmos y Complejidad Combinatoria Teor a de C digos Criptograf a Geometr a Discreta y Computacional Optimizaci n Discreta Teor a de Grafos Problemas de localizaci n discreta y temas relacionados Las ediciones anteriores de este evento se celebraron en Sevilla 2018 y Barcelona 2016 estos congresos heredan la tradici n de las Jornadas de Matem tica Discreta y Algor tmica JMDA el encuentro bienal en Espa a en Matem tica Discreta desde 1998 Durante la celebraci n del congreso tendr n lugar cuatro conferencias plenarias cuarenta y dos presentaciones orales y una sesi n de once p steres Abstract The Discrete Mathematics Days DMD20 22 will be held on July 4 6 2022 at Facultad de Ciencias of the Universidad de Cantabria Santander Spain The main focus of this international conference is on current topics in Discrete Mathematics including but not limited to Algorithms and Complexity Combinatorics Coding Theory Cryptography Discrete and Computational Geometry Discrete Optimization Graph Theory Location and Related Problems The previous editions were held in Sevilla in 2018 and in Barcelona in 2016 inheriting the tradition of the Jornadas de Matem tica Discreta y Algor tmica JMDA the Spanish biennial meeting since 1998 on Discrete Mathematics The program consists on four plenary talks 42 contributed talks and a poster session with 11 contributions

*Surveys on Discrete and Computational Geometry* Jacob E. Goodman, 2008 This volume contains nineteen survey papers describing the state of current research in discrete and computational geometry as well as a set of open problems presented at the 2006 AMS IMS SIAM Summer Research Conference Discrete and Computational Geometry Twenty Years Later held in Snowbird Utah in June 2006 Topics surveyed include metric graph theory lattice polytopes the combinatorial complexity of unions of geometric objects line and pseudoline arrangements algorithmic semialgebraic geometry persistent homology unfolding polyhedra pseudo triangulations nonlinear computational geometry  $k$  sets and the computational complexity of convex bodies      *Almost Periodic Type Solutions* Marko Kostić, 2025-03-03 Maybe for the first time in the existing literature we investigate here the almost periodic type solutions to the abstract Volterra difference equations depending on several variables We also investigate the generalized almost periodic type sequences and their applications in a rather detailed manner as well as many new important spaces of metrically generalized almost periodic type spaces of sequences and functions We essentially apply some results from the theory of  $C$  regularized solution operator families to the abstract Volterra integro differential difference equations contributing also to the theory of fractional calculus and fractional differential equations The theory of abstract Volterra integro differential equations and the theory of abstract Volterra difference equations are very attractive fields of research of many authors The almost periodic features and the asymptotically almost periodic features of solutions to the abstract Volterra differential difference equations in Banach

spaces have been sought in many research articles published by now The main aim of this monograph is to continue the work collected in my monographs published with W de Gruyter recently by providing several new results about the existence and uniqueness of almost periodic type solutions to the abstract Volterra integro differential difference equations which could be solvable or unsolvable with respect to the highest derivative order We would like to particularly emphasize that this is probably the first research monograph devoted to the study of almost periodic type solutions to the abstract Volterra difference equations depending on several variables We also consider here many new important spaces of metrically generalized almost periodic type spaces of sequences and functions and their almost automorphic analogues It is also worth noting that this is probably the first research monograph which concerns the generalized almost periodic type sequences and their applications in a rather detailed manner for the first time in the existing literature we also present here some applications of results from the theory of C regularized solution operator families to the abstract Volterra difference equations Fractional calculus and discrete fractional calculus are rapidly growing fields of theoretical and applied mathematics which are incredibly important in modeling of various real phenomena appearing in different fields like aerodynamics rheology interval valued systems chaotic systems with short memory and image encryption and discrete time recurrent neural networks Many important research results regarding the abstract fractional differential equations and the abstract fractional difference equations in Banach spaces have recently been obtained by a great number of authors from the whole world In this monograph we also contribute to the theories of discrete fractional calculus fractional differential difference equations and multi dimensional Laplace transform Although the monograph is far from being complete we have decided to quote almost eight hundred and fifty research articles which could be of some importance to the interested readers for further developments of the theory established here

*Pattern Recognition on Oriented Matroids* Andrey O. Matveev, 2017-09-11 *Pattern Recognition on Oriented Matroids* covers a range of innovative problems in combinatorics poset and graph theories optimization and number theory that constitute a far reaching extension of the arsenal of committee methods in pattern recognition The groundwork for the modern committee theory was laid in the mid 1960s when it was shown that the familiar notion of solution to a feasible system of linear inequalities has ingenious analogues which can serve as collective solutions to infeasible systems A hierarchy of dialects in the language of mathematics for instance open cones in the context of linear inequality systems regions of hyperplane arrangements and maximal covectors or topes of oriented matroids provides an excellent opportunity to take a fresh look at the infeasible system of homogeneous strict linear inequalities the standard working model for the contradictory two class pattern recognition problem in its geometric setting The universal language of oriented matroid theory considerably simplifies a structural and enumerative analysis of applied aspects of the infeasibility phenomenon The present book is devoted to several selected topics in the emerging theory of pattern recognition on oriented matroids the questions of existence and applicability of matroidal generalizations of

committee decision rules and related graph theoretic constructions to oriented matroids with very weak restrictions on their structural properties a study in which in particular interesting subsequences of the Farey sequence appear naturally of the hierarchy of the corresponding tope committees a description of the three tope committees that are the most attractive approximation to the notion of solution to an infeasible system of linear constraints an application of convexity in oriented matroids as well as blocker constructions in combinatorial optimization and in poset theory to enumerative problems on tope committees an attempt to clarify how elementary changes one element reorientations in an oriented matroid affect the family of its tope committees a discrete Fourier analysis of the important family of critical tope committees through rank and distance relations in the tope poset and the tope graph the characterization of a key combinatorial role played by the symmetric cycles in hypercube graphs Contents Oriented Matroids the Pattern Recognition Problem and Tope Committees Boolean Intervals Dehn Sommerville Type Relations Farey Subsequences Blocking Sets of Set Families and Absolute Blocking Constructions in Posets Committees of Set Families and Relative Blocking Constructions in Posets Layers of Tope Committees Three Tope Committees Halfspaces Convex Sets and Tope Committees Tope Committees and Reorientations of Oriented Matroids Topes and Critical Committees Critical Committees and Distance Signals Symmetric Cycles in the Hypercube Graphs      Geometric Discrepancy Jiri Matousek,1999-05-19 What is the most uniform way of distributing  $n$  points in the unit square How big is the irregularity necessarily present in any such distribution This book is an accessible and lively introduction to the area of geometric discrepancy theory with numerous exercises and illustrations In separate more specialized parts it also provides a comprehensive guide to recent research      Bidirectional Comparison of Nominal Sets Grażyna Szkatuła,Maciej Krawczak,2024-02-27 The authors propose a novel measure of proximity between two sets of nominal elements This measure describes the changes in the first set after adding the second set or changes in the second set after adding the first set It is crucial to note that this measure is not symmetric it means that the perturbation of the first set on the second set can be different than the perturbation of the opposition direction The introduced set impact measure allows for the direct treatment of objects described by nominal valued attributes The ordinary sets multisets fuzzy sets and the intuitionistic fuzzy sets are considered The book is intended for data science professionals philosophers as well as cognitive psychologists who struggle with practical problems in which asymmetry of proximity of objects cannot be neglected The use of the proposed measures of perturbation between compared objects can be very important in data mining or in exploration of Internetresources      *Lectures on Discrete Geometry* Jiri Matousek,2013-12-01 Discrete geometry investigates combinatorial properties of configurations of geometric objects To a working mathematician or computer scientist it offers sophisticated results and techniques of great diversity and it is a foundation for fields such as computational geometry or combinatorial optimization This book is primarily a textbook introduction to various areas of discrete geometry In each area it explains several key results and methods in an accessible and concrete manner It also contains more advanced material in



separate sections and thus it can serve as a collection of surveys in several narrower subfields The main topics include basics on convex sets convex polytopes and hyperplane arrangements combinatorial complexity of geometric configurations intersection patterns and transversals of convex sets geometric Ramsey type results polyhedral combinatorics and high dimensional convexity and lastly embeddings of finite metric spaces into normed spaces Jiri Matousek is Professor of Computer Science at Charles University in Prague His research has contributed to several of the considered areas and to their algorithmic applications This is his third book

**Handbook of Discrete and Computational Geometry, Second Edition** Csaba D. Toth, Joseph O'Rourke, Jacob E. Goodman, 2004-04-13 While high quality books and journals in this field continue to proliferate none has yet come close to matching the Handbook of Discrete and Computational Geometry which in its first edition quickly became the definitive reference work in its field But with the rapid growth of the discipline and the many advances made over the past seven years it's time to bring this standard setting reference up to date Editors Jacob E Goodman and Joseph O'Rourke reassembled their stellar panel of contributors added many more and together thoroughly revised their work to make the most important results and methods both classic and cutting edge accessible in one convenient volume Now over more than 1500 pages the Handbook of Discrete and Computational Geometry Second Edition once again provides unparalleled authoritative coverage of theory methods and applications Highlights of the Second Edition Thirteen new chapters Five on applications and others on collision detection nearest neighbors in high dimensional spaces curve and surface reconstruction embeddings of finite metric spaces polygonal linkages the discrepancy method and geometric graph theory Thorough revisions of all remaining chapters Extended coverage of computational geometry software now comprising two chapters one on the LEDA and CGAL libraries the other on additional software Two indices An Index of Defined Terms and an Index of Cited Authors Greatly expanded bibliographies

*Semidefinite Optimization and Convex Algebraic Geometry* Grigoriy Blekherman, Pablo A. Parrilo, Rekha R. Thomas, 2013-03-21 An accessible introduction to convex algebraic geometry and semidefinite optimization For graduate students and researchers in mathematics and computer science

*Topics in Semidefinite and Interior-Point Methods* Panos M. Pardalos, Henry Wolkowicz, 1998 This volume presents refereed papers presented at the workshop Semidefinite Programming and Interior Point Approaches for Combinatorial Problems held at The Fields Institute in May 1996 Semidefinite programming SDP is a generalization of linear programming LP in that the non negativity constraints on the variables is replaced by a positive semidefinite constraint on matrix variables Many of the elegant theoretical properties and powerful solution techniques follow through from LP to SDP In particular the primal dual interior point methods which are currently so successful for LP can be used to efficiently solve SDP problems In addition to the theoretical and algorithmic questions SDP has found many important applications in combinatorial optimization control theory and other areas of mathematical programming The papers in this volume cover a wide spectrum of recent developments in SDP The volume would be suitable as a textbook for advanced courses in

optimization It is intended for graduate students and researchers in mathematics computer science engineering and operations

**Graphs and Geometry** László Lovász, 2019-08-28 Graphs are usually represented as geometric objects drawn in the plane consisting of nodes and curves connecting them The main message of this book is that such a representation is not merely a way to visualize the graph but an important mathematical tool It is obvious that this geometry is crucial in engineering for example if you want to understand rigidity of frameworks and mobility of mechanisms But even if there is no geometry directly connected to the graph theoretic problem a well chosen geometric embedding has mathematical meaning and applications in proofs and algorithms This book surveys a number of such connections between graph theory and geometry among others rubber band representations coin representations orthogonal representations and discrete analytic functions Applications are given in information theory statistical physics graph algorithms and quantum physics The book is based on courses and lectures that the author has given over the last few decades and offers readers with some knowledge of graph theory linear algebra and probability a thorough introduction to this exciting new area with a large collection of illuminating examples and exercises

*Polytopes - Combinations and Computation* Gil Kalai, Günter M. Ziegler, 2012-12-06 Questions that arose from linear programming and combinatorial optimization have been a driving force for modern polytope theory such as the diameter questions motivated by the desire to understand the complexity of the simplex algorithm or the need to study facets for use in cutting plane procedures In addition algorithms now provide the means to computationally study polytopes to compute their parameters such as flag vectors graphs and volumes and to construct examples of large complexity The papers of this volume thus display a wide panorama of connections of polytope theory with other fields Areas such as discrete and computational geometry linear and combinatorial optimization and scientific computing have contributed a combination of questions ideas results algorithms and finally computer programs

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