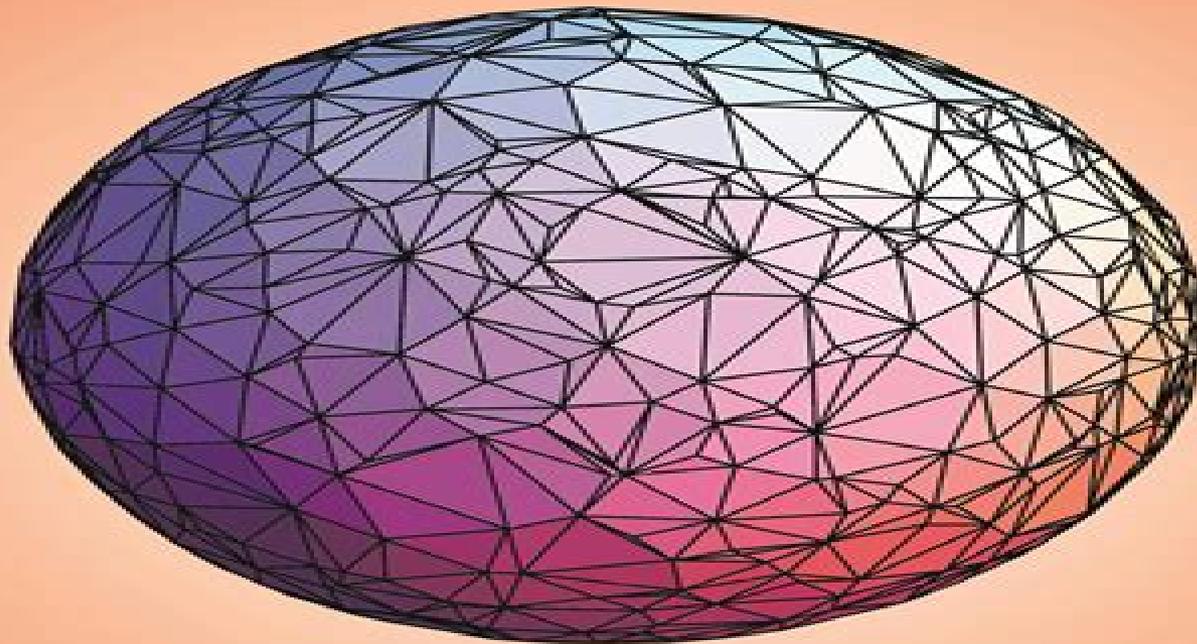


DISCRETE AND COMPUTATIONAL  
GEOMETRY



SATYAN L. DEVADOSS  
JOSEPH O'ROURKE

# Discrete And Computational Geometry

**Bernard Chazelle, Jacob E.  
Goodman, Richard Pollack**



## **Discrete And Computational Geometry:**

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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 and Computational Geometry Boris Aronov, Saugata Basu, Janos Pach, Micha Sharir, 2003-06-23 An impressive collection of original research papers in discrete and computational geometry contributed by many leading researchers in these fields as a tribute to Jacob E Goodman and Richard Pollack two of the founding fathers of the area on the occasion of their 23 x 100 birthdays The topics covered by the 41 papers provide professionals and graduate students with a comprehensive presentation of the state of the art in most aspects of discrete and computational geometry including geometric algorithms study of arrangements geometric graph theory quantitative and algorithmic real algebraic geometry with important connections to algebraic geometry convexity polyhedral combinatorics the theory of packing covering and tiling The book serves as an invaluable source of reference in this discipline *Discrete and Computational Geometry* Jacob E. Goodman, Richard D. Pollack, William L. Steiger, 1991-01-01 The first DIMACS special year held during 1989 1990 was devoted to discrete and computational geometry More than 200 scientists both long and short term visitors came to DIMACS to participate in the special year activities Among the highlights were six workshops at Rutgers and Princeton Universities that defined the focus for much of the special year The workshops addressed the following topics geometric complexity probabilistic methods in discrete and computational geometry polytopes and convex sets arrangements and algebraic and practical issues in geometric computation This volume presents some of the results growing out of the workshops and the special year activities Containing both survey articles and research papers this collection presents an excellent overview of significant recent progress in discrete and computational geometry The diversity of these papers demonstrate how geometry continues to provide a vital source of ideas in theoretical computer science and discrete mathematics as well as fertile ground for interaction and simulation between the two disciplines *Discrete and Computational Geometry* Jin Akiyama, Mikio Kano, Masatsugu Urabe, 2014-01-15 New Trends in Discrete and Computational Geometry Janos Pach, 2012-12-06 Discrete and computational geometry are two fields which in recent years have benefitted from the interaction between mathematics and computer science The results are applicable in areas such as motion planning robotics scene analysis and computer aided design The book consists of twelve chapters summarizing the most recent results and methods in discrete and computational geometry All authors are well known experts in these fields They give concise and self

contained surveys of the most efficient combinatorial probabilistic and topological methods that can be used to design effective geometric algorithms for the applications mentioned above. Most of the methods and results discussed in the book have not appeared in any previously published monograph. In particular, this book contains the first systematic treatment of epsilon nets, geometric transversal theory, partitions of Euclidean spaces, and a general method for the analysis of randomized geometric algorithms. Apart from mathematicians working in discrete and computational geometry, this book will also be of great use to computer scientists and engineers who would like to learn about the most recent results.

**Discrete and Computational Geometry** Jin Akiyama, Mikio Kano, Masatsugu Urabe, 2014-01-15

**Discrete and Computational Geometry** Jin Akiyama, Mikio Kano, Masatsugu Urabe, 2001-06-20

The Japan Conference on Discrete and Computational Geometry (JCDCG) has been held annually since 1997. One of the goals of this conference series is to bring together Japanese researchers from both academia and industry with researchers in these fields from abroad to share their recent results. JCDCG 2000 was held on 22-25 November 2000 at Tokai University in Tokyo in conjunction with the celebration of World Mathematics Year 2000. A total of 120 participants from 20 countries attended. This volume consists of the papers presented at JCDCG 2000, which have been refereed and revised. Some papers, which appear in short form in this volume, also appear in fuller expanded versions in journals dedicated to computational geometry. The organizers of the conference thank the principal speakers for their interest and support: Imre Barany, Erik D. Demaine, Greg N. Fredrickson, Gyula Karolyi, Naoki Katoh, David Kirkpatrick, Joseph O'Rourke, Janos Pach, Jozsef Solymosi, William Steiger, Jorge Urrutia, and Allan Wilks.

**Discrete and Computational Geometry** Jin Akiyama, Mikio Kano, 2003-12-04

This book constitutes the thoroughly refereed post-proceedings of the Japanese Conference on Discrete Computational Geometry (JCDCG 2002) held in Tokyo, Japan, in December 2002. The 29 revised full papers presented were carefully selected during two rounds of reviewing and improvement. All current issues in discrete algorithmic geometry are addressed.

**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.

**Twentieth Anniversary Volume: Discrete & Computational Geometry** Jacob E. Goodman, János Pach, Richard Pollack, 2009-03-02

While we were busy putting together the present collection of articles celebrating the twentieth birthday of our journal, Discrete, the complexity/hardness of a variety of geometric algorithms depends on McMullen's upper bound theorem on convex polytopes or on the maximum number of halving lines determined by  $2n$  points in the plane, that is, the

number of different ways a set of points can be cut by a straight line into two parts of the same size proximity questions stemming from several application areas turn out to be intimately related to Erdos's classical questions on the distribution of distances determined by  $n$  points in the plane or in space On the other hand the algorithmic point of view has fertilized several fields of convexity and of discrete geometry which had lain fallow for some years and has opened new research directions

**Discrete and Computational Geometry** Jin Akiyama, Mikio Kano, Xuehou Tan, 2005-11-15 This book constitutes the thoroughly refereed post proceedings of the Japanese Conference on Discrete Computational Geometry JCDCG 2004 held in Tokyo Japan in October 2004 to honor Janos Pach on his fiftieth year The 20 revised full papers presented were carefully selected during two rounds of reviewing and improvement from over 60 talks at the conference All current issues in discrete algorithmic geometry are addressed

**Advances in Discrete and Computational Geometry** Bernard Chazelle, Jacob E. Goodman, Richard Pollack, 1999 This volume is a collection of refereed expository and research articles in discrete and computational geometry written by leaders in the field Articles are based on invited talks presented at the AMS IMS SIAM Summer Research Conference Discrete and Computational Geometry Ten Years Later held in 1996 at Mt Holyoke College So Hadley MA Topics addressed range from tilings polyhedra and arrangements to computational topology and visibility problems Included are papers on the interaction between real algebraic geometry and discrete and computational geometry as well as on linear programming and geometric discrepancy theory

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articles and research papers this collection presents an excellent overview of discrete and computational geometry The diversity of these papers demonstrate how geometry continues to provide a vital source of ideas in theoretical computer science and discrete mathematics as well as fertile ground for interaction and stimulation between the two disciplines

**Discrete and Computational Geometry** Jin Akiyama, JCD CG., *Discrete and Computational Geometry* Jin Akiyama, Mikio Kano, Masatsugu Urabe, 2000-02-16 This volume consists of those papers presented at the Japan Conference on Discrete and Computational Geometry 98 The conference was held 9-12 cember 1998 at Tokai University in Tokyo Close to a hundred participants from 10 countries participated Interest in Computational Geometry surfaced among engineers in Japan out twenty years ago while interest in Discrete Geometry arose as a natural extension of the research of a group of graph theorists more recently One of the goals of the conference was to bring together these two groups and to put them in contact with experts in these elds from abroad This is the second conference in the series The plan is to hold one every year and to publish the papers of the conferences every two years The organizers thank the sponsors of the conference namely The Institute of Educational Development of Tokai University Grant in Aid of the Ministry of Education of Japan A Saito A 10304008 Mitsubishi Research Institute Sanada Institute of System Development Japan Process and Upward They also thank especially T Asano D Avis V Chv atal H Imai J Pach D R paport M Ruiz J O Rourke K Sugihara T Tokuyama and J Urrutia for their interest and support

*Invariant Methods in Discrete and Computational Geometry* Neil L. White, 2013-03-09 Invariant or coordinate free methods provide a natural framework for many geometric questions Invariant Methods in Discrete and Computational Geometry provides a basic introduction to several aspects of invariant theory including the supersymmetric algebra the Grassmann Cayler algebra and Chow forms It also presents a number of current research papers on invariant theory and its applications to problems in geometry such as automated theorem proving and computer vision Audience Researchers studying mathematics computers and robotics

*Differential Geometry and Topology, Discrete and Computational Geometry (NATO Science Series. Series III, Computer and Systems Sciences, 1387-6694 ; V. 197)* Mohamed Boucetta, 2005

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