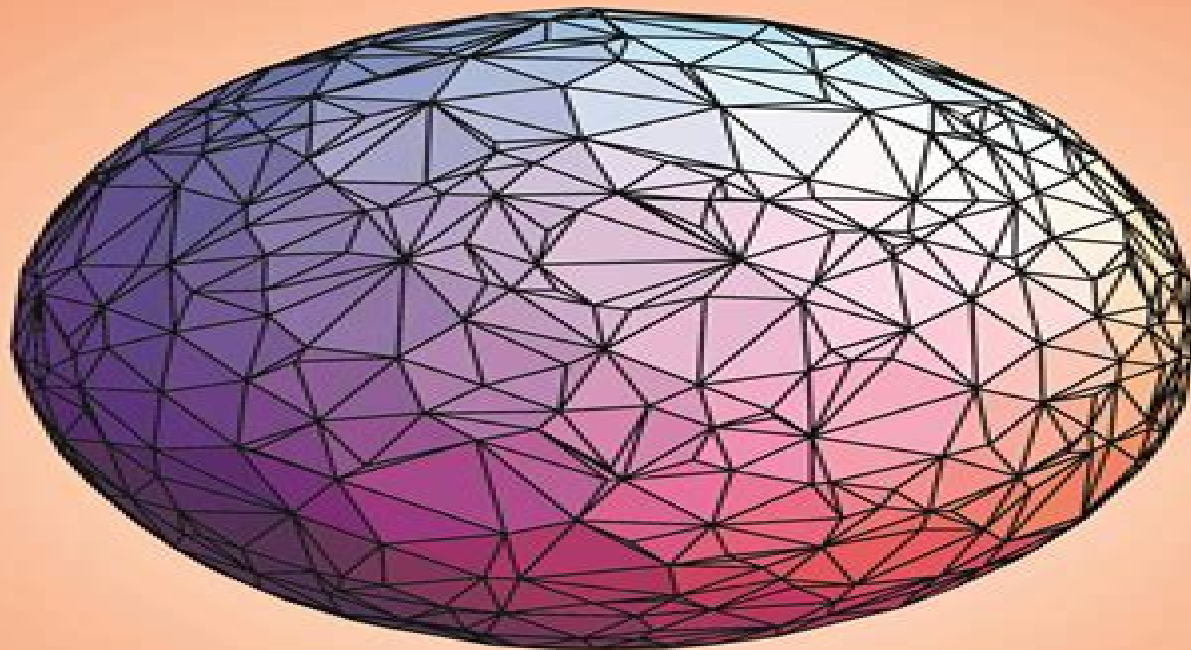


DISCRETE AND COMPUTATIONAL
GEOMETRY



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Discrete And Computational Geometry

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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, 2006 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

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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 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 terestands 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

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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 Erdős'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

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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Pach D R paport M Ruiz J O Rourke K Sugihara T Tokuyama and J Urrutia for their interest and support **Discrete and Computational Geometry** Jin Akiyama,JCDCG., **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 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 **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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