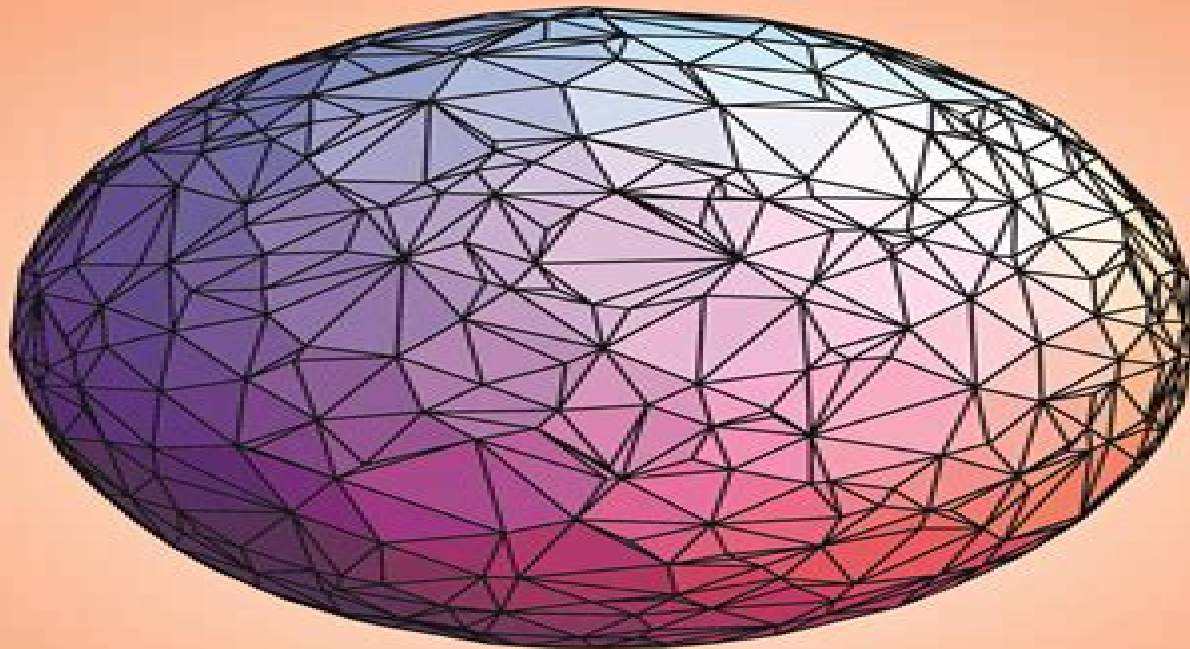


DISCRETE AND COMPUTATIONAL GEOMETRY



SATYAN L. DEVADOSS
JOSEPH O'ROURKE

Discrete And Computational Geometry

**Csaba D. Toth, Joseph O'Rourke, Jacob
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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

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 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

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

Discrete and Computational Geometry Jin Akiyama, JCDCG., *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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