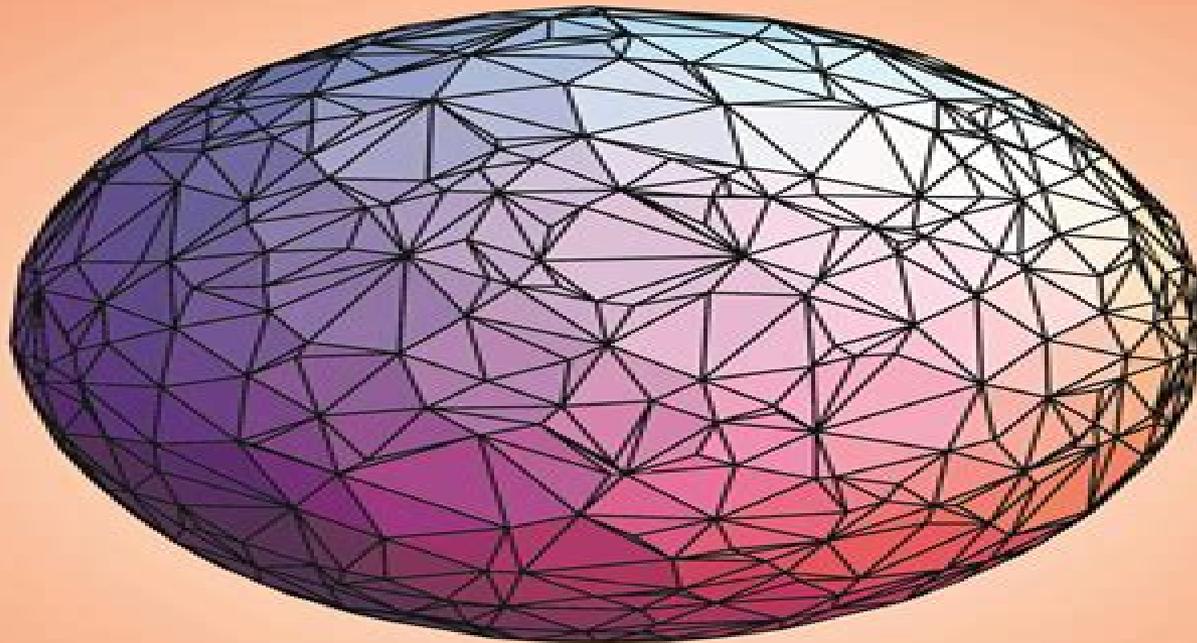


DISCRETE AND COMPUTATIONAL  
GEOMETRY



SATYAN L. DEVADOSS  
JOSEPH O'ROURKE

# Discrete And Computational Geometry

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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

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*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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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 complexity and of discrete geometry which had lain fallow for some years and has opened new research directions.

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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, South 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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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

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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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