New Trends in Discrete and Computational Geometry

Filesize: 8.05 MB

Reviews

Without doubt, this is actually the greatest function by any article writer. It is among the most amazing publication i have got read. Its been printed in an exceedingly basic way in fact it is simply after i finished reading through this publication where in fact changed me, change the way i believe.
(Arielle Ledner)

NEW TRENDS IN DISCRETE AND COMPUTATIONAL GEOMETRY

To read **New Trends in Discrete and Computational Geometry** eBook, remember to access the button under and save the ebook or get access to additional information that are related to NEW TRENDS IN DISCRETE AND COMPUTATIONAL GEOMETRY book.

Book Condition: New. Publisher/Verlag: Springer, Berlin | 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 combinatorical, 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 tranversal 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. | I. Combinatorics and Algorithms of Arrangements.- 1. Introduction.- 2. Arrangements of Curves in the Plane.- 3. Lower Envelopes and Davenport-Schinzel Sequences.- 3.1 A Few Initial Applications.- 3.2 Applications of Lower Envelopes and Davenport-Schinzel Sequences.- 4. Faces in Arrangements.- 4.1 The Case of a Single Face.- 4.2 Many Faces in Arrangements and Related Problems.- 4.3 Partitioning Arrangements.- 5. Arrangements in Higher Dimensions.- 5.1 Lower Envelopes of Bivariate Functions and Their Applications.- 5.2 The Complexity of a Single Cell and Related Problems.- 6. Summary.- References.- II. Backwards Analysis of Randomized Geometric Algorithms.- 1. Introduction.- 2. Delaunay Triangulations of Convex Polygons.- 3. Intersecting Line Segments.- 4. Constructing Planar Convex Hulls.- 5. Backwards Analysis of QUICKSORT.- 6. A Bad Example.- 7. Linear Programming for...

Read New Trends in Discrete and Computational Geometry Online

Download PDF New Trends in Discrete and Computational Geometry

Other Books

[PDF] A Smarter Way to Learn JavaScript: The New Approach That Uses Technology to Cut Your Effort in Half (Paperback)

Follow the link listed below to get "A Smarter Way to Learn JavaScript: The New Approach That Uses Technology to Cut Your Effort in Half (Paperback)" file.

Read eBook »

[PDF] The Mystery on the Great Wall of China

Follow the link listed below to get "The Mystery on the Great Wall of China" file.

Read eBook »

[PDF] Who Am I in the Lives of Children? an Introduction to Early Childhood Education, Enhanced Pearson Etext with Loose-Leaf Version -- Access Card Package

Follow the link listed below to get "Who Am I in the Lives of Children? an Introduction to Early Childhood Education, Enhanced Pearson Etext with Loose-Leaf Version -- Access Card Package" file.

Read eBook »

[PDF] Who am I in the Lives of Children? An Introduction to Early Childhood Education (Paperback)

Follow the link listed below to get "Who am I in the Lives of Children? An Introduction to Early Childhood Education (Paperback)" file.

Read eBook »

[PDF] Who Am I in the Lives of Children? an Introduction to Early Childhood Education with Enhanced Pearson Etext -- Access Card Package (Paperback)

Follow the link listed below to get "Who Am I in the Lives of Children? an Introduction to Early Childhood Education with Enhanced Pearson Etext -- Access Card Package (Paperback)" file.

Read eBook »

[PDF] Hoppy the Happy Frog: Short Stories, Games, Jokes, and More! (Paperback)

Follow the link listed below to get "Hoppy the Happy Frog: Short Stories, Games, Jokes, and More! (Paperback)" file.

Read eBook »