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"Combinatorial Geometry and Its Algorithmic Applications" is intended as a source book for professional mathematicians and computer scientists as well as for graduate students interested in combinatorics and geometry. Most chapters start with an attractive, simply formulated, but often difficult and only partially answered mathematical question ...

Combinatorial geometry and its algorithmic applications ...

Combinatorial Geometry with Algorithmic Applications The Alcalá Lectures János Pach Micha Sharir. Contents Chapter 1. Crossing Numbers of Graphs: Graph Drawing and its Applications 1 1. Crossings – the Brick Factory Problem 1 ... combinatorial problem, thus the above two conjectures may offer a spark of hope

Combinatorial Geometry with Algorithmic Applications

Computational geometry as an area of research in its own right emerged in the early seventies of this century. Right from the beginning, it was obvious that strong connections of various kinds exist to questions studied in the considerably older field of combinatorial geometry. For example, the combinatorial structure of a geometric problem usually decides which algorithmic method solves the ...

Algorithms in Combinatorial Geometry

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Computational geometry - Wikipedia

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Combinatorial geometry and its algorithmic applications : The Alcalá lectures / Janos Pach, Micha Sharir. p. cm. — (Mathematical surveys and monographs ; v. 152) Includes bibliographical references and index. ISBN 978-0-8218-4691-9 (alk. paper) 1. Combinatorial geometry. 2. Algorithms. I. Sharir, Micha. II. Title. QA167.p332 2009 516.13 ...

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Discrete geometry - Wikipedia

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Combinatorial geometry and its algorithmic applications ...

Combinatorial Geometry and Its Algorithmic Applications: The Alcalá Lectures About this Title. János Pach, Courant Institute of Mathematical Sciences, New York, NY and Micha Sharir, Tel Aviv University, Tel Aviv, Israel. Publication: Mathematical Surveys and Monographs

The Approximate Rank of a Matrix and its Algorithmic ...

Discrete geometry and combinatorial geometry are branches of geometry that study combinatorial properties and constructive methods of discrete geometric objects. Most questions in discrete geometry involve finite or discrete sets of basic geometric objects, such as points, lines, planes, circles, spheres, polygons, and so forth.

Combinatorial Geometry and Its Algorithmic Applications

Combinatorial computational geometry, also called algorithmic geometry, which deals with geometric objects as discrete entities. A groundlaying book in the subject by Preparata and Shamos dates the first use of the term "computational geometry" in this sense by 1975.

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