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Geometric Approximation Algorithms Mathematical Surveys

This book is, as the name suggests, a broad survey on Geometric Approximation Algorithms. That is to say, the subject of the book are approximation algorithms for computational geometry problems, as well as geometrically flavored approximation algorithms for not-necessarily-geometric problems.

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Exact algorithms for dealing with geometric objects are complicated, hard to implement in practice, and slow. Over the last 20 years a theory of geometric approximation algorithms has emerged. These algorithms tend to be simple, fast, and more robust than their exact

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Geometric Approximation Algorithms

Geometric approximation algorithms / Sarel Har-Peled. p. cm. — (Mathematical surveys and monographs ; v. 173) Includes bibliographical references and index. ISBN 978-0-8218-4911-8 (alk. paper) 1. Approximation algorithms. 2. Geometry—Data processing. 3. Computer graphics. 4. Discrete geometry. I. Title. QA448.D38H377 2011 516 .11—dc22 2011002940

Geometric Approximation Algorithms

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In this chapter, we are going to discuss two basic geometric algorithms. The first one, computes the closest pair among a set of n points in linear time. This is a beautiful and surprising result that exposes the computational power of using grids for geometric computation. Next, we discuss a simple algorithm for

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Geometric Approximation Algorithms

GEOMETRIC APPROXIMATION VIA CORESETS 3 that solving the underlying problem on Q gives an approximate solution to the original problem. For example, if $\mu(Q) \geq (1 - \epsilon)\mu(P)$, then this approach gives an approximation to the extent measure of P .

Geometric Approximation via Coresets

Surveys in Approximation Theory, 2 (2006), 1-52. ... Constructive Function Theory on Sets of the Complex Plane through Potential Theory and Geometric Function Theory V. V. Andrievskii. Abstract. This is a survey of some recent results concerning polynomial inequalities and polynomial approximation of functions in the complex plane. The results ...

Surveys in Approximation Theory (SAT) - math.auckland.ac.nz

S. Arora, Approximation schemes for NP-hard geometric optimization problems: A survey, Math Programming, 97, 2003. M. Goldwasser, A survey of linear programming in randomized subexponential time, SIGACT News, 26 (1995), 96-104.

CPS296.2: Geometric Optimization - Duke University ...

A notable example of an approximation algorithm that provides both is the classic approximation algorithm of Lenstra, Shmoys and Tardos for scheduling on unrelated parallel machines. The design and analysis of approximation algorithms crucially involves a mathematical proof certifying the quality of the returned solutions in the worst case.

Approximation algorithm - Wikipedia

In computational geometry, they have been applied to range searching, derandomization, and approximation algorithms. [15] [16] Kozma & Moran (2013) use generalizations of the Sauer-Shelah

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lemma to prove results in graph theory such as that the number of strong orientations of a given graph is sandwiched between its numbers of connected and 2 ...

Sauer-Shelah lemma - Wikipedia

Background on geometric approximation As mentioned, for many problems described in the current survey, Bern and Eppstein describe approximation algorithms that approximate the problem within some constant factor. (An exception is k-median, for which no constant factor approximation was known at the time a PTAS was found.)

Approximation schemes for NP-hard geometric optimization ...

Clustering--definitions and basic algorithms; On complexity, sampling, and ϵ -nets and ϵ -samples; Approximation via reweighting; Yet even more on sampling; Sampling and the moments technique; Depth estimation via sampling; Approximating the depth via sampling and emptiness; Random partition via shifting; Good ...

Geometric Approximation Algorithms | Mathematical ...

(book) S. Har-Peled; Geometric Approximation Algorithms; Mathematical Surveys and Monographs, AMS, 2011 --- chapters 17 to 20 (book) G. Shakhnarovich and T. Darrell and P. Indyk (Eds), Nearest-Neighbors Methods in Learning and Vision. Theory and Practice, MIT press, 2005. (book) Samet, Hanan.

Foundations of Geometric Methods in Data Analysis - Inria

"Geometric approximation via coresets," with S. Har-Peled and K. R. Varadarajan, ... "Randomized algorithms for geometric optimization problems," with S. Sen, ... ACM Computing Surveys 30 (1998), 412-458. "Geometric range searching and its relatives," with J. Erickson, ...

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Har-Peled, S.: Geometric Approximation Algorithms, Mathematical Surveys and Monographs, On the Complexity of Randomly Weighted Multiplicative Voronoi Diagrams Geometric approximation algorithms Mathematical Surveys and Monographs 2011; Over the last 20 years a theory of geometric approximation algorithms has emerged. American Mathematical Society

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In Approximation Algorithms for NP-hard Problems, Dorit Hochbaum, Ed. PWS Publishing ...
Approximation schemes for NP-hard geometric optimization problems: A survey. Sanjeev Arora. ...
and appeared in Math Programming, 97 (1,2) July ...

Sanjeev Arora - Princeton University Computer Science

Research Interests. Computational & discrete geometry: Paradigms & techniques, approximation algorithms, stochastic models, geometric optimization, kinetic geometry ...

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