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Complexity Of Lattice Problems A

The study of lattices, specifically from a computational point of view, was marked by two major breakthroughs: the development of the LLL lattice reduction algorithm by Lenstra, Lenstra and Lovasz in the early 80's, and Ajtai's discovery of a connection

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between the worst-case and average-case hardness of certain lattice problems in the late 90's.

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Description. Complexity of Lattice Problems: A Cryptographic Perspective is an essential reference for those researching ways in which lattice problems can be used to build cryptographic systems. It will also be of interest to those working in computational complexity, combinatorics, and foundations of cryptography.

Complexity of lattice problems: a cryptographic perspective

On the Complexity of Lattice Problems with Polynomial Approximation Factors Oded Regev / May 21, 2007 Abstract Lattice problems are known to be hard to approximate to within sub-polynomial factors. For larger approximation factors, such as $p \leq n$, lattice problems are known to be in complexity classes such as $NP \setminus coNP$ and are hence unlikely to be NP-hard.

On the Complexity of Lattice Problems with Polynomial ...

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@inproceedings{Micciancio2002ComplexityOL, title={Complexity of lattice problems - a cryptographic perspective}, author={Daniele Micciancio and S. Goldwasser}, booktitle={The Kluwer international series in engineering and computer science}, year={2002} }

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Noah Stephens-Davidowitz (MIT) Lattices: Algorithms, Complexity, and Cryptography Boot Camp

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Complexity of Lattice Problems

We survey some recent developments in the study of the complexity of certain lattice problems. We focus on the recent progress on complexity results of intractability. We will discuss Ajtai's worst-case/average-case connections for the shortest vector problem, ...

The Complexity of Some Lattice Problems | SpringerLink

In The complexity of the covering radius problem (Computational Complexity, 2005) D. Micciancio with collaborators V. Guruswami and O. Regev, started the systematic study of the computational complexity of approximating the covering radius of point lattices and proved many results for various values of the approximation factor.

Project: Complexity of lattice problems - Computer Science

Download Complexity Of Lattice Problems books, Lattices are geometric objects that can be pictorially described as the set of intersection points of an infinite, regular n-dimensional grid. Despite their apparent simplicity, lattices hide a rich combinatorial structure, which has attracted the attention of great mathematicians over the last two centuries.

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In computer science, lattice problems are a class of optimization problems related to mathematical objects called lattices. The conjectured intractability of such problems is central to the construction of secure lattice-based cryptosystems : Lattice problems are an example of NP-hard problems which have been shown to be average-case hard, providing a test case for the security of cryptographic algorithms.

Lattice problem - Wikipedia

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Complexity of Lattice Problems : Daniele Micciancio ...

In other words, A is a discrete additive subgroup of m . - f6
COMPLEXITY OF LATTICE PROBLEMS Determinant 1.1 The determinant of a lattice $A = \mathbb{Z} \langle B \rangle$, denoted $\det(A)$, is the n dimensional volume of the fundamental parallelepiped $P(B)$ spanned by the basis vectors. (See shaded areas in Figures 1.1 and 1.2.)

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Complexity of Lattice Problems: A Cryptographic Perspective
Volume 671 of The Springer International Series in Engineering and Computer Science: Authors: Daniele Micciancio, Shafi Goldwasser: Edition: illustrated: Publisher: Springer Science & Business Media, 2002: ISBN: 0792376889, 9780792376880: Length: 220 pages: Subjects

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In [4] it was shown that exactly solving the lattice basis reduction problem is equivalent in complexity to solving the closest vector problem, meaning that at least hyper-exponential complexity ...

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Complexity of Lattice Problems A Cryptographic Perspective. Support. Adobe DRM (4.0 / 5.0 - 3 customer ratings) Lattices are geometric objects that can be pictorially described as the set of intersection points of an infinite, regular n -dimensional grid.

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CiteSeerX - Document Details (Isaac Council, Lee Giles, Pradeep Teregowda): We survey some recent developments in the study of the complexity of lattice problems. After a discussion of some problems on lattices which can be algorithmically solved efficiently, our main focus is the recent progress on complexity results of intractability. We will discuss Ajtai's worstcase /average-case ...

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