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Complexity Of Lattice Problems A

On the Complexity of Lattice Problems with Polynomial ...
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 n, lattice problems are known to be in complexity classes such as NP\coNP and are hence unlikely to be
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Complexity Of Lattice Problems A Cryptographic Perspective

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On the Complexity of Lattice Puzzles

one/twosided operations #depths rule complexity note any one-sided permutation 3 loose NP-complete Theorem2 colored one-sided permutation 2 fit GI-complete Theorem3 any one-sided both 3 fit GI-hard Corollary4 colored one-sided flip unbounded any poly Theorem5 n×k (k:fixed) any both unbounded any FPTfork Theorem6

The Complexity of the Covering Radius Problem on Lattices ...

these applications, attention to the covering radius problem, specifically from a computational complexity point of view, has been recently brought by Micciancio [26] who showed that this problem can be used to get tighter connections between the average and worst case complexity of lattice problems

The Complexity of the Covering Radius Problem on Lattices ...

The Complexity of the Covering Radius Problem on Lattices and Codes Venkatesan Guruswami Daniele Micciancioy Oded Regevz Abstract We initiate the study of the computational complexity of the covering radius problem for point lattices, and approx-imation versions of the problem for both lattices and linear codes We also investigate the

Some Complexity Results and Bit Unpredictable for Short ...

Among all the lattice problems, shortest vector problem is NP-hard under random reduction which is proved by Micciancio[24] It could be randomly reduced from a special version of CVP which is NP-hard under deterministic reduction This work could be regarded as the fundamental complexity result of lattice problems as SVP is the core problem in

A Local-Global Approach to Solving Ideal Lattice Problems

polynomial time-complicated solvers for lattice problems, eg,SVP/CVP ie, lattice problem’s computational hardness only depends on dimension n(Tab1) Some related works show that there are important di erences in computa-tional complexity between the ...

Mastermath, Spring 2018 Lecture 8 End of Transference ...

Complexity of lattice problems Many lattice problems are hard to calculate, or even to approximate We prove NP-hardness of CVP and the fact that CVP is at least as hard as SVP, after which we discuss hardness of approximation Theorem 6 CVP is NP-hard Proof: We reduce solving Ax = b,x 2f0,1gn, where A 2Zm n,b 2Zm, to solving CVP: if you

A relation of primal-dual lattices and the complexity of ...

the worst-case and the average-case complexity of the shortest lattice vector problem This is the problem of finding or approximating the shortest lattice vector or its length In a tour de force, Ajtai [2] further established the NP-hardness of the problem of

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Some Recent Progress on the Complexity of Lattice Problems Jin-Yi Cai Department of Computer Science and Engineering State University of New York Buffalo, NY 14260 USA cai@cseb

Lattice Points, Polyhedra, and Complexity

4 A BARVINOK, LATTICE POINTS, POLYHEDRA, AND COMPLEXITY are not formally introduced in the text, but which, nevertheless, are likely to be familiar to the reader Preview problems address what is going to appear in the following lectures or after the last lecture The purpose of these problems is to make the reader prepared,

Hard Lattice Problems

Whereinnovation starts Hard Lattice Problems Benne de Weger (inspired by Joop van de Pol's MSc Thesis, 2011) bmmdweger@tuenl Kolkata, India, Jan 12, 2012

Lattice Problems in NP coNP - NYU Courant

The complexity of lattice problems in the range of polynomial approximation factors is of particular interest For example, Ajtai's seminal work [3] is based on the hardness of approximation in this region (see also [5, 25]) A sequence of incomparable results gave upper bounds on …

Daniele Micciancio UC San Diego

Outline Lattice Problems – Introduction to Lattices, SVP, SIVP, etc Cryptographic assumptions – Average-case vs worst-case complexity Example Application Issues/Discussion – Choosing security parameters – Using lattices with special properties

Worst-case time complexity of a lattice formation problem

are established for certain formation control problems More recently, Mart´ınez et al in [2] propose a detailed model and analyze the time complexity of basic ren-dezvous and deployment algorithms For many of the resulting linear dynamical systems, the worst case time complexity is of order Θ(n2 logn) (rendezvous) and O(n3 logn

A Deterministic Single Exponential Time Algorithm for Most ...

In this paper we resolve this question in the a rmative, giving a deterministic single exponential time algorithm for CVP, and therefore by the reductions in [23, 38], also to SVP, SIVP and several other lattice problems in NP considered in the literature This improves the time complexity of

Algorithms for the Shortest and Closest Lattice Vector ...

Abstract We present the state of the art solvers of the Shortest and Closest Lattice Vector Problems in the Euclidean norm We recall the three main families of algorithms for these problems, namely the algo-rithm by Micciancio and Voulgaris based on the Voronoi cell [STOC'10], the Monte-Carlo algorithms derived from the Ajtai, Kumar and Sivaku-