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self-contained
overview of the state
of the art in the
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problems, with
particular emphasis
on problems that are
related to the
construction of
cryptographic
functions.

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Cryptographic ...

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 between

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

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Perspective is an
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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

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working in
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complexity,
combinatorics, and
foundations of
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book presents a self-
contained overview of
the state of the art in
the complexity of
lattice problems, with
particular emphasis
on problems that are
related to the

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Complexity of lattice
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perspective

In other words, A is a
discrete additive
subgroup of m . - f6

COMPLEXITY OF
LATTICE
PROBLEMS

Determinant 1.1 The
determinant of a

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lattice $A = \mathbb{Z}(B)$,
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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problems: a
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perspective By
Daniele Micciancio
and Shafi Goldwasser
Topics: Mathematical
Physics and
Mathematics

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Abstract. We survey
some recent

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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, similar results for the closest

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vector problem and short basis problem, NP-hardness and non-NP-hardness, transference theorems between primal and dual lattices, and application to secure cryptography.

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books, Lattices are
geometric objects that

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Lattices 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 ...

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Lattice Problems Full
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May 21, 2007.

Abstract Lattice problems are known to be hard to approximate to within sub-polynomial factors. For larger approximation factors, such as $p \cdot n$, lattice problems are known to be in complexity

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classes such as $NP \setminus coNP$ and are hence unlikely to be NP-hard. Here we survey known results in this area.

On the Complexity of Lattice Problems with Polynomial ...

In computer science, lattice problems are a class of optimization problems related to

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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

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for the security of cryptographic algorithms. In addition, some lattice problems which are worst-case hard can be used as a basis for ext

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Lattice problem -
Wikipedia

In [4] it was shown that exactly solving the lattice basis

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reduction problem is
equivalent in
complexity to solving
the closest vector
problem, meaning
that at least hyper-
exponential
complexity ...

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Noah Stephens-
Davidowitz (MIT)

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about lattices and
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cryptographic perspective-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

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Problems A Complexity Of Lattice Cryptographic Problems

However, before lattice cryptography goes live, we need major advances in understanding the hardness of lattice problems that underlie the security of these cryptosystems.

Significant,
Page 36/39

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groundbreaking progress on these questions requires a concerted effort by researchers from many areas: (algebraic) number theory, (quantum) algorithms, optimization, cryptography, and coding theory.

Lattices: Algorithms,

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