Lattices from a Computational Complexity Point of View

- Lattice problems are among the richest problems in complexity theory, exhibiting a wide range of behaviors:
  - Some problems are in P (as shown by LLL)
  - Some problems are NP-hard
  - Some problems are not known to be in P, but believed not to be NP-hard
- As a rule of thumb, 'algebraic' problems are easy; 'geometric' problems are hard

Complexity Of Lattice Problems Complexity Of Lattice Problems

Joseph H. Silverman

Complexity Of Lattice Problems Complexity Of Lattice Problems:

Complexity of Lattice Problems Daniele Micciancio,Shafi Goldwasser,2002-03-31 Lattices are geometric objects that can be pictorially described as the set of intersection points of an infinite regular n dimensional grid De spite their apparent simplicity lattices hide a rich combinatorial struc ture which has attracted the attention of great mathematicians over the last two centuries Not surprisingly lattices have found numerous ap plications in mathematics and computer science ranging from number theory and Diophantine approximation to combinatorial optimization and cryptography 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 the worst case and average case hardness of certain lattice problems in the late 90 s The LLL algorithm despite the relatively poor quality of the solution it gives in the worst case allowed to devise polynomial time solutions to many classical problems in computer science These include solving integer programs in a fixed number of variables factoring polynomials over the rationals breaking knapsack based cryptosystems and finding solutions to many other Diophantine and cryptanalysis problems *Computational Complexity of Lattice Problems* Mårten Larsson,1999 Cryptography and Lattices Joseph H. Silverman,2003-06-30 This book constitutes the thoroughly refereed post proceedings of the International Conference on Cryptography and Lattices CaLC 2001 held in Providence RI USA in March 2001 The 14 revised full papers presented together with an overview paper were carefully reviewed and selected for inclusion in the book All current aspects of lattices and lattice reduction in cryptography both for cryptographic construction and cryptographic analysis are addressed **The LLL Algorithm** Phong Q. Nguyen,Brigitte Vallée,2009-12-02 The first book to offer a comprehensive view of the LLL algorithm this text surveys computational aspects of Euclidean lattices and their main applications It includes many detailed motivations explanations and examples Encyclopedia of Cryptography and Security Henk C.A. van Tilborg,Sushil Jajodia,2014-07-08 Expanded into two volumes the Second Edition of Springer s Encyclopedia of Cryptography and Security brings the latest and most comprehensive coverage of the topic Definitive information on cryptography and information security from highly regarded researchers Effective tool for professionals in many fields and researchers of all levels Extensive resource with more than 700 contributions in Second Edition 5643 references more than twice the number of references that appear in the First Edition With over 300 new entries appearing in an A Z format the Encyclopedia of Cryptography and Security provides easy intuitive access to information on all aspects of cryptography and security As a critical enhancement to the First Edition s base of 464 entries the information in the Encyclopedia is relevant for researchers and professionals alike Topics for this comprehensive reference were elected written and peer reviewed by a pool of distinguished researchers in the field The Second Edition s editorial board now includes 34 scholars which was expanded from 18 members in the First Edition Representing the work of researchers from over 30 countries the Encyclopedia is broad

in scope covering everything from authentication and identification to quantum cryptography and web security The text s practical style is instructional yet fosters investigation Each area presents concepts designs and specific implementations The highly structured essays in this work include synonyms a definition and discussion of the topic bibliographies and links to related literature Extensive cross references to other entries within the Encyclopedia support efficient user friendly searches for immediate access to relevant information Key concepts presented in the Encyclopedia of Cryptography and Security include Authentication and identification Block ciphers and stream ciphers Computational issues Copy protection Cryptanalysisand security Cryptographic protocols Electronic payment and digital certificates Elliptic curve cryptography Factorization algorithms and primality tests Hash functions and MACs Historical systems Identity based cryptography Implementation aspects for smart cards and standards Key management Multiparty computations like voting schemes Public key cryptography Quantum cryptography Secret sharing schemes Sequences Web Security Topics covered Data Structures Cryptography and Information Theory Data Encryption Coding and Information Theory Appl Mathematics Computational Methods of Engineering Applications of Mathematics Complexity This authoritative reference will be published in two formats print and online The online edition features hyperlinks to cross references in addition to significant research

Encyclopedia of Cryptography, Security and Privacy Sushil Jajodia,Pierangela Samarati,Moti Yung,2025-01-10 A rich stream of papers and many good books have been written on cryptography security and privacy but most of them assume a scholarly reader who has the time to start at the beginning and work his way through the entire text The goal of Encyclopedia of Cryptography Security and Privacy Third Edition is to make important notions of cryptography security and privacy accessible to readers who have an interest in a particular concept related to these areas but who lack the time to study one of the many books in these areas The third edition is intended as a replacement of Encyclopedia of Cryptography and Security Second Edition that was edited by Henk van Tilborg and Sushil Jajodia and published by Springer in 2011 The goal of the third edition is to enhance on the earlier edition in several important and interesting ways First entries in the second edition have been updated when needed to keep pace with the advancement of state of the art Second as noticeable already from the title of the encyclopedia coverage has been expanded with special emphasis to the area of privacy Third considering the fast pace at which information and communication technology is evolving and has evolved drastically since the last edition entries have been expanded to provide comprehensive view and include coverage of several newer topics

Public-Key Cryptography -- PKC 2014 Hugo Krawczyk,2014-02-20 This book constitutes the refereed proceedings of the 17th International Conference on Practice and Theory in Public Key Cryptography PKC 2014 held in Buenos Aires Argentina in March 2014 The 38 papers presented were carefully reviewed and selected from 145 submissions The papers are organized in topical sections on chosen ciphertext security re encryption verifiable outsourcing cryptanalysis identity and attribute based encryption enhanced encryption signature schemes related key security functional authentication quantum

impossibility privacy protocols   *Advances in Cryptology – EUROCRYPT 2011* Kenneth G. Paterson,2011-05-02 This book constitutes the refereed proceedings of the 30th Annual International Conference on the Theory and Applications of Cryptographic Techniques EUROCRYPT 2011 held in Tallinn Estonia in May 2011 The 31 papers presented together with 2 invited talks were carefully reviewed and selected from 167 submissions The papers are organized in topical sections on lattice base cryptography implementation and side channels homomorphic cryptography signature schemes information theoretic cryptography symmetric key cryptography attacks and algorithms secure computation composability key dependent message security and public key encryption   **A Course in Mathematical Cryptography** Gilbert Baumslag,Benjamin Fine,Martin Kreuzer,Gerhard Rosenberger,2015-06-16 Cryptography has become essential as bank transactions credit card infor mation contracts and sensitive medical information are sent through inse cure channels This book is concerned with the mathematical especially algebraic aspects of cryptography It grew out of many courses presented by the authors over the past twenty years at various universities and covers a wide range of topics in mathematical cryptography It is primarily geared towards graduate students and advanced undergraduates in mathematics and computer science but may also be of interest to researchers in the area Besides the classical methods of symmetric and private key encryption the book treats the mathematics of cryptographic protocols and several unique topics such as Group Based Cryptography Gr bner Basis Methods in Cryptography Lattice Based Cryptography   **STACS 2004** Volker Diekert,Michel Habib,2004-03-18 This book constitutes the refereed proceedings of the 21st Annual Symposium on Theoretical Aspects of Computer Science STACS 2004 held in Montpellier France in March 2004 The 54 revised full papers presented together with two invited contributions were carefully reviewed and selected from more than 200 submissions The papers are organized in topical sections on structural complexity graph algorithms quantum computing satisfiability constraint satisfaction problems scheduling algorithms networks automata theory and words path algorithms cryptography logic and formal languages game theory and complexity and algorithmic information   *Selected Areas in Cryptography* Stafford Tavares,Henk Meijer,2003-07-31 AC 98 A C AC 94 AC 96 K AC 95 AC 97 C O I AC 98 D A K C E I C C I M N O 39 AC 98 26 A M K A E B I O J C J 3   **Selected Areas in Cryptography** Lars R. Knudsen,Huapeng Wu,2013-01-03 This book constitutes the thoroughly refereed post conference proceedings of the 19th International Conference on Selected Areas in Cryptography SAC 2012 held in Windsor Ontario Canada in August 2012 The 24 papers presented were carefully reviewed and selected from 87 submissions They are organized in topical sections named cryptanalysis digital signatures stream ciphers implementations block cipher cryptanalysis lattices hashfunctions blockcipher constructions and miscellaneous   **Approximation, Randomization, and Combinatorial Optimization. Algorithms and Techniques** Anupam Gupta,Klaus Jansen,José D.P. Rolim,ROCCO SERVEDIO,2012-07-20 This book constitutes the joint refereed proceedings of the 15th International Workshop on Approximation Algorithms for Combinatorial Optimization Problems APPROX 2012 and the 16th International Workshop on

Randomization and Computation RANDOM 2012 held in Cambridge Massachusetts USA in August 2011 The volume contains 28 contributed papers selected by the APPROX Program Committee out of 70 submissions and 28 contributed papers selected by the RANDOM Program Committee out of 67 submissions APPROX focuses on algorithmic and complexity issues surrounding the development of efficient approximate solutions to computationally difficult problems RANDOM is concerned with applications of randomness to computational and combinatorial problems   Integer Programming and Related Areas R.v. Randow,2012-12-06   **Algorithmic Number Theory** Wieb Bosma,2000 This book constitutes the refereed proceedings of the 4th International Algorithmic Number Theory Symposium ANTS IV held in Leiden The Netherlands in July 2000 The book presents 36 contributed papers which have gone through a thorough round of reviewing selection and revision Also included are 4 invited survey papers Among the topics addressed are gcd algorithms primality factoring sieve methods cryptography linear algebra lattices algebraic number fields class groups and fields elliptic curves polynomials function fields and power sums   *Theory and Applications of Models of Computation* T V Gopal,Manindra Agrawal,Angsheng Li,S. Barry Cooper,2014-04-01 This book constitutes the refereed proceedings of the 11th Annual Conference on Theory and Applications of Models of Computation TAMC 2014 held in Chennai India in April 2014 The 27 revised full papers presented were carefully reviewed and selected from 112 submissions The papers explore the algorithmic foundations computational methods and computing devices to meet today s and tomorrow s challenges of complexity scalability and sustainability with wide ranging impacts on everything from the design of biological systems to the understanding of economic markets and social networks   **Advances in Cryptology - ASIACRYPT 2009** Mitsuri Matsui,2009-12-01 This book constitutes the refereed proceedings of the 15th International Conference on the Theory and Application of Cryptology and Information Security ASIACRYPT 2009 held in Tokyo Japan in December 2009 The 41 revised full papers presented were carefully reviewed and selected from 298 submissions The papers are organized in topical sections on block ciphers quantum and post quantum hash functions I encryption schemes multi party computation cryptographic protocols hash funtions II models and frameworks I cryptoanalysis square and quadratic models and framework II hash functions III lattice based and side channels   Conceptual Structures for Knowledge Creation and Communication Aldo de Moor,Wilfried Lex,Bernhard Ganter,2003-09-09 This volume contains the proceedings of ICCS 2003 the 11th International C ferenceonConceptualStructures Thisconferenceseriescontinuestobethemain forum for the presentation and discussion of state of the art research on conc tualstructures Thetheories methodologies andtechniquespresentedherehave grown considerably in scope in recent years On the other hand solid bridges spanning the boundaries between such diverse elds as Conceptual Graphs F mal Concept Analysis and others are increasingly being built in our community The theme of this year s conference was Conceptual Structures for Kno edge Creation and Communication In our increasingly Inter networked world the potential support of information technology for the creation and commu cation

of quality knowledge is almost boundless However in reality many c ceptual barriers prevent the use of this potential The main problem is no longer in the technological infrastructure but in how to navigate use and manage the wealth of available data resources Thus the question is how to create and communicate from data the information and ultimately the knowledge required by an ever more complex and dynamic society Conceptual structures research focuses on what is behind and between the data glut and the information ov load that need to be overcome in answering this question In this way our eld contributes important ideas on how to actually realize some of the many still ambitious visions All regular papers were reviewed in a thorough and open process by at least two reviewers and one editor *Automata, Languages and Programming* ,2001 Automata, Languages and Programming Ugo Montanari,Jose D.P. Rolim,Emo Welzl,2003-08-06 This book constitutes the refereed proceedings of the 27th International Colloquium on Automata Languages and Programming ICALP 2000 held in Geneva Switzerland in July 2000 The 69 revised full papers presented together with nine invited contributions were carefully reviewed and selected from a total of 196 extended abstracts submitted for the two tracks on algorithms automata complexity and games and on logic semantics and programming theory All in all the volume presents an unique snapshot of the state of the art in theoretical computer science

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