Complexity Of Lattice Problems A Cryptographic Perspective Author Daniele Micciancio Mar 2002

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Advances in Cryptology – CRYPTO 2009 Shai Halevi 2009-08-18 This book constitutes the refereed proceedings of the 29th Annual International Cryptology Conference, CRYPTO 2009, held in Santa Barbara, CA, USA in August 2009. The 38 revised full papers

presented were carefully reviewed and selected from 213 submissions. Addressing all current foundational, theoretical and research aspects of cryptology, cryptography, and cryptanalysis as well as advanced applications, the papers are organized in topical sections on key leakage, hash-function cryptanalysis, privacy and anonymity, interactive proofs and zero-knowledge, block-cipher cryptanalysis, modes of operation, elliptic curves, cryptographic hardness, merkle puzzles, cryptography in the physical world, attacks on signature schemes, secret sharing and secure computation, cryptography and game-theory, cryptography and lattices, identity-based encryption and cryptographers' toolbox.

Number Theory and Cryptography Marc Fischlin 2013-11-21 Johannes Buchmann is internationally recognized as one of the leading figures in areas of computational number theory, cryptography and information security. He has published numerous scientific papers and books spanning a very wide spectrum of interests; besides R&D he also fulfilled lots of administrative tasks for instance building up and directing his research group CDC at Darmstadt, but he also served as the Dean of the Department of Computer Science at TU Darmstadt and then went on to become Vice President of the university for six years (2001-2007). This festschrift, published in honor of Johannes Buchmann on the occasion of his 60th birthday, contains contributions by some of his colleagues, former students and friends. The papers give an overview of Johannes Buchmann's research interests, ranging from computational number theory and the hardness of cryptographic assumptions to more application-oriented topics such as privacy and hardware security.

With this book we celebrate Johannes Buchmann's vision and achievements.
Advances in Cryptology -- CRYPTO 2003 CRYPTO. 2003-08-04 This book constitutes the refereed proceedings of the 23rd Annual International Cryptology Conference, CRYPTO 2003, held in Santa Barbara, California in August 2003. The 34 revised full papers presented together with 2 invited papers were carefully reviewed and selected from 166 submissions. The papers are organized in topical sections on public key cryptanalysis, alternate adversary models, protocols, symmetric key cryptanalysis, universal composability, zero knowledge, algebraic geometry, public key constructions, new problems, symmetric key constructions, and new models.
Advances in Cryptology - EUROCRYPT 2008 Nigel Smart 2008-04-05 Here are the refereed proceedings of the 27th Annual International Conference on the Theory and Applications of Cryptographic Techniques, EUROCRYPT 2008. The 31 revised full papers presented were carefully reviewed and selected from 163 submissions.
Post-Quantum Cryptography Daniel J. Bernstein 2009-02-01 Quantum computers will break today's most popular public-key cryptographic systems, including RSA, DSA, and ECDSA. This book introduces the reader to the next generation of cryptographic algorithms, the systems that resist quantum-computer attacks: in particular, post-quantum public-key encryption systems and post-quantum public-key signature systems. Leading experts have joined forces for the first time to explain the state of the art in quantum computing, hash-based cryptography, code-based cryptography, lattice-based cryptography, and multivariate cryptography. Mathematical foundations

and implementation issues are included. This book is an essential resource for students and researchers who want to contribute to the field of post-quantum cryptography.

Algorithmic Number Theory Duncan Buell 2004-05-04 The sixth Algorithmic Number Theory Symposium was held at the University of Vermont, in Burlington, from 13–18 June 2004. The organization was a joint e?ort of number theorists from around the world. There were four invited talks at ANTS VI, by Dan Bernstein of the Univ- sity of Illinois at Chicago, Kiran Kedlaya of MIT, Alice Silverberg of Ohio State University, and Mark Watkins of Pennsylvania State University. Thirty cont- buted talks were presented, and a poster session was held. This volume contains the written versions of the contributed talks and three of the four invited talks. (Not included is the talk by Dan Bernstein.) ANTS in Burlington is the sixth in a series that began with ANTS I in 1994 at Cornell University, Ithaca, New York, USA and continued at Universit´ eB- deaux I, Bordeaux, France (1996), Reed College, Portland, Oregon, USA (1998), the University of Leiden, Leiden, The Netherlands (2000), and the University of Sydney, Sydney, Australia (2002). The proceedings have been published as volumes 877, 1122, 1423, 1838, and 2369 of Springer-Verlag's Lecture Notes in Computer Science series. The organizers of the 2004 ANTS conference express their special gratitude and thanks to John Cannon and Joe Buhler for invaluable behind-the-scenes advice.

Complexity Theory and Cryptology Jörg Rothe 2006-03-30 Modern cryptology increasingly employs mathematically rigorous concepts and methods from complexity theory. Conversely, current research topics

in complexity theory are often motivated by questions and problems from cryptology. This book takes account of this situation, and therefore its subject is what may be dubbed "cryptocomplexity'', a kind of symbiosis of these two areas. This book is written for undergraduate and graduate students of computer science, mathematics, and engineering, and can be used for courses on complexity theory and cryptology, preferably by stressing their interrelation. Moreover, it may serve as a valuable source for researchers, teachers, and practitioners working in these fields. Starting from scratch, it works its way to the frontiers of current research in these fields and provides a detailed overview of their history and their current research topics and challenges.

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.

Coding and Cryptology Yeow Meng Chee 2011-06-05 This book constitutes the refereed proceedings of the Third International Workshop on Coding and Cryptology, IWCC 2011, held in Qingdao, China, May 30-June 3, 2011. The 19 revised full

technical papers are contributed by the invited speakers of the workshop. The papers were carefully reviewed and cover a broad range of foundational and methodological as well as applicative issues in coding and cryptology, as well as related areas such as combinatorics. *Public-Key Cryptography – PKC 2020* Aggelos Kiayias 2020-04-29 The two-volume set LNCS 12110 and 12111 constitutes the refereed proceedings of the 23rd IACR International Conference on the Practice and Theory of Public-Key Cryptography, PKC 2020, held in Edinburgh, UK, in May 2020. The 44 full papers presented were carefully reviewed and selected from 180 submissions. They are organized in topical sections such as: functional encryption; identity-based encryption; obfuscation and applications; encryption schemes; secure channels; basic primitives with special properties; proofs and arguments; lattice-based cryptography; isogeny-based cryptography; multiparty protocols; secure computation and related primitives; post-quantum primitives; and privacy-preserving schemes.

Complexity of Lattice Problems Daniele Micciancio 2012-12-06 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.

Interactions between Group Theory, Symmetry and Cryptology María Isabel González Vasco 2020-04-22 Cryptography lies at the heart of most technologies deployed today for secure communications. At the same time, mathematics lies at the heart of cryptography, as cryptographic constructions are based on algebraic scenarios ruled by group or number theoretical laws. Understanding the involved algebraic structures is, thus, essential to design robust cryptographic schemes. This Special Issue is concerned with the interplay between group theory, symmetry and cryptography. The book highlights four exciting areas of research in which these fields intertwine: post-quantum cryptography, coding theory, computational group theory and symmetric cryptography. The articles presented demonstrate the relevance of rigorously analyzing the computational hardness of the mathematical problems used as a base for cryptographic constructions. For instance, decoding

problems related to algebraic codes and rewriting problems in non-abelian groups are explored with cryptographic applications in mind. New results on the algebraic properties or symmetric cryptographic tools are also presented, moving ahead in the understanding of their security properties. In addition, post-quantum constructions for digital signatures and key exchange are explored in this Special Issue, exemplifying how (and how not) group theory may be used for developing robust cryptographic tools to withstand quantum attacks.

Approximation, Randomization, and Combinatorial Optimization. Algorithms and Techniques Anupam Gupta 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.

Theory of Cryptography Shai Halevi 2006-03-01 This book constitutes the refereed proceedings of the Third Theory of Cryptography Conference, TCC 2006, held in March 2006. The 31 revised full papers presented were carefully reviewed

and selected from 91 submissions. The papers are organized in topical sections on zero-knowledge, primitives, assumptions and models, the bounded-retrieval model, privacy, secret sharing and multi-party computation, universally-composible security, one-way functions and friends, and pseudo-random functions and encryption.

Computational Complexity Sanjeev Arora 2009-04-20 New and classical results in computational complexity, including interactive proofs, PCP, derandomization, and quantum computation. Ideal for graduate students.

A Decade of Lattice Cryptography Chris Peikert 2016-03-07 Surveys most of the major developments in lattice cryptography over the past ten years. The main focus is on the foundational short integer solution (SIS) and learning with errors (LWE) problems, their provable hardness assuming the worst-case intractability of standard lattice problems, and their many cryptographic applications.

Providing Sound Foundations for Cryptography Oded Goldreich 2019-09-13 Cryptography is concerned with the construction of schemes that withstand any abuse. A cryptographic scheme is constructed so as to maintain a desired functionality, even under malicious attempts aimed at making it deviate from its prescribed behavior. The design of cryptographic systems must be based on firm foundations, whereas ad hoc approaches and heuristics are a very dangerous way to go. These foundations were developed mostly in the 1980s, in works that are all co-authored by Shafi Goldwasser and/or Silvio Micali. These works have transformed cryptography from an engineering discipline, lacking sound theoretical foundations, into a scientific field

possessing a well-founded theory, which influences practice as well as contributes to other areas of theoretical computer science. This book celebrates these works, which were the basis for bestowing the 2012 A.M. Turing Award upon Shafi Goldwasser and Silvio Micali. A significant portion of this book reproduces some of these works, and another portion consists of scientific perspectives by some of their former students. The highlight of the book is provided by a few chapters that allow the readers to meet Shafi and Silvio in person. These include interviews with them, their biographies and their Turing Award lectures.

Cryptanalytic Attacks on RSA Song Y. Yan 2007-11-15 RSA is a public-key cryptographic system, and is the most famous and widely-used cryptographic system in today's digital world. Cryptanalytic Attacks on RSA, a professional book, covers almost all known cryptanalytic attacks and defenses of the RSA cryptographic system and its variants. Since RSA depends heavily on computational complexity theory and number theory, background information on complexity theory and number theory is presented first, followed by an account of the RSA cryptographic system and its variants. This book is also suitable as a secondary text for advanced-level students in computer science and mathematics.

Information Security and Cryptology - ICISC 2014 Jooyoung Lee 2015-03-16 This book constitutes the thoroughly refereed post-conference proceedings of the 17th International Conference on Information Security and Cryptology, ICISC 2014, held in Seoul, South Korea in December 2014. The 27 revised full papers presented were carefully selected from 91 submissions during two rounds of reviewing. The papers provide the latest results in research,

development and applications in the field of information security and cryptology. They are organized in topical sections on RSA security, digital signature, public key cryptography, block ciphers, network security, mobile security, hash functions, information hiding and efficiency, cryptographic protocol, and side-channel attacks.

Mathematics of Public Key Cryptography Steven D. Galbraith 2012-03-15 This advanced graduate textbook gives an authoritative and insightful description of the major ideas and techniques of public key cryptography.

Foundations of Security Analysis and Design VI Alessandro Aldini 2011-08-19 FOSAD has been one of the foremost educational events established with the goal of disseminating knowledge in the critical area of security in computer systems and networks. Offering a timely spectrum of current research in foundations of security, FOSAD also proposes panels dedicated to topical open problems, and giving presentations about ongoing work in the field, in order to stimulate discussions and novel scientific collaborations. This book presents thoroughly revised versions of nine tutorial lectures given by leading researchers during three International Schools on Foundations of Security Analysis and Design, FOSAD, held in Bertinoro, Italy, in September 2010 and August/September 2011. The topics covered in this book include privacy and data protection; security APIs; cryptographic verification by typing; model-driven security; noninterfer-quantitative information flow analysis; and risk analysis.

Advances in Cryptology - CRYPTO 2008 David Wagner 2008-07-30 Annotation This book contains the proceedings of the

EUROCRYPT '87 conference, a workshop on theory and applications of cryptographic techniques held at Amsterdam, April 1987. 26 papers were selected from over twice that number submitted to the program committee. The authors come from Europe, North America, and Japan and represent some of the leading research groups working in the fields of cryptography and data security. The subjects covered include sequences and linear complexity; hardware considerations, including random sources, physical security, and cryptographic algorithm implementation; topics in public key cryptography; authentication and secure transactions; hash functions and signatures; and the theory and application of symmetric ciphers.

Lattice-Based Cryptosystems Jiang Zhang 2020-10-14 This book focuses on lattice-based cryptosystems, widely considered to be one of the most promising post-quantum cryptosystems and provides fundamental insights into how to construct provably secure cryptosystems from hard lattice problems. The concept of provable security is used to inform the choice of lattice tool for designing cryptosystems, including public-key encryption, identity-based encryption, attribute-based encryption, key change and digital signatures. Given its depth of coverage, the book especially appeals to graduate students and young researchers who plan to enter this research area.

The LLL Algorithm Phong Q. Nguyen 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.

Understanding Cryptography Christof Paar 2009-11-27 Cryptography is now ubiquitous – moving beyond the traditional environments, such as government communications and banking systems, we see cryptographic techniques realized in Web browsers, e-mail programs, cell phones, manufacturing systems, embedded software, smart buildings, cars, and even medical implants. Today's designers need a comprehensive understanding of applied cryptography. After an introduction to cryptography and data security, the authors explain the main techniques in modern cryptography, with chapters addressing stream ciphers, the Data Encryption Standard (DES) and 3DES, the Advanced Encryption Standard (AES), block ciphers, the RSA cryptosystem, public-key cryptosystems based on the discrete logarithm problem, elliptic-curve cryptography (ECC), digital signatures, hash functions, Message Authentication Codes (MACs), and methods for key establishment, including certificates and public-key infrastructure (PKI). Throughout the book, the authors focus on communicating the essentials and keeping the mathematics to a minimum, and they move quickly from explaining the foundations to describing practical implementations, including recent topics such as lightweight ciphers for RFIDs and mobile devices, and current key-length recommendations. The authors have considerable experience teaching applied cryptography to engineering and computer science students and to professionals, and they make extensive use of examples, problems, and chapter reviews, while the book’s website offers slides, projects and links to further resources. This is a suitable textbook for graduate and advanced

undergraduate courses and also for self-study by engineers.

Public Key Cryptography – PKC 2007 Tatsuaki Okamoto 2007-06-21 This book constitutes the refereed proceedings of the 10th International Conference on Practice and Theory in Public-Key Cryptography, PKC 2007, held in Beijing, China in April 2007. The 29 revised full papers presented together with two invited lectures are organized in topical sections on signatures, cryptanalysis, protocols, multivariate cryptosystems, encryption, number theoretic techniques, and public-key infrastructure.

Theory and Applications of Models of Computation T V Gopal 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 – CRYPTO 2007 Alfred Menezes 2007-08-10 This volume constitutes the refereed proceedings of the 27th Annual International Cryptology Conference held in Santa Barbara, California, in August 2007. Thirty-three full papers are presented along with one important invited lecture. The papers address current foundational, theoretical, and research aspects of cryptology, cryptography, and cryptanalysis. In addition, readers will discover many advanced

and emerging applications.

Public-Key Cryptography - PKC 2018 Michel Abdalla 2018-03-05 The two-volume set LNCS 10769 and 10770 constitutes the refereed proceedings of the 21st IACR International Conference on the Practice and Theory of Public-Key Cryptography, PKC 2018, held in Rio de Janeiro, Brazil, in March 2018. The 49 revised papers presented were carefully reviewed and selected from 186 submissions. They are organized in topical sections such as Key-Dependent-Message and Selective-Opening Security; Searchable and Fully Homomorphic Encryption; Public-Key Encryption; Encryption with Bad Randomness; Subversion Resistance; Cryptanalysis; Composable Security; Oblivious Transfer; Multiparty Computation; Signatures; Structure-Preserving Signatures; Functional Encryption; Foundations; Obfuscation-Based Cryptographic Constructions; Protocols; Blockchain; Zero-Knowledge; Lattices.

Handbook of Applied Cryptography Alfred J. Menezes 2018-12-07 Cryptography, in particular public-key cryptography, has emerged in the last 20 years as an important discipline that is not only the subject of an enormous amount of research, but provides the foundation for information security in many applications. Standards are emerging to meet the demands for cryptographic protection in most areas of data communications. Public-key cryptographic techniques are now in widespread use, especially in the financial services industry, in the public sector, and by individuals for their personal privacy, such as in electronic mail. This Handbook will serve as a valuable reference for the novice as well as for the expert who needs a wider scope of coverage within the area

of cryptography. It is a necessary and timely guide for professionals who practice the art of cryptography. The Handbook of Applied Cryptography provides a treatment that is multifunctional: It serves as an introduction to the more practical aspects of both conventional and public-key cryptography It is a valuable source of the latest techniques and algorithms for the serious practitioner It provides an integrated treatment of the field, while still presenting each major topic as a self-contained unit It provides a mathematical treatment to accompany practical discussions It contains enough abstraction to be a valuable reference for theoreticians while containing enough detail to actually allow implementation of the algorithms discussed Now in its third printing, this is the definitive cryptography reference that the novice as well as experienced developers, designers, researchers, engineers, computer scientists, and mathematicians alike will use.

Quantum Computation and Quantum Information Michael A. Nielsen 2000-10-23 First-ever comprehensive introduction to the major new subject of quantum computing and quantum information.

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.

Post-Quantum Cryptography Tanja Lange 2017-06-14 This book constitutes the refereed proceedings of the 8th International Workshop on Post-Quantum Cryptography, PQCrypto 2017, held in Utrecht, The Netherlands, in June 2017. The 23 revised full papers presented were carefully reviewed and selected from 67 submissions. The papers are organized in topical sections on code-based cryptography, isogeny-based cryptography, lattice-based cryptography, multivariate cryptography, quantum algorithms, and security models.

Advances in Cryptology - CRYPTO 2006 Cynthia Dwork 2006-08-08 Constitutes the refereed proceedings of the 26th Annual International Cryptology Conference, CRYPTO 2006, held in California, USA in 2006. These papers address the foundational, theoretical and research aspects of cryptology, cryptography, and cryptanalysis as well as advanced applications.

Mathematics and Computation Avi Wigderson 2019-10-29 An introduction to computational complexity theory, its connections and interactions with mathematics, and its central role in the natural and social sciences, technology, and philosophy Mathematics and Computation provides a broad, conceptual overview of computational complexity theory—the mathematical study of efficient computation. With important practical applications to computer science and industry, computational complexity theory has evolved into a highly interdisciplinary field, with strong links to most mathematical areas and to a growing number of scientific endeavors. Avi Wigderson takes a sweeping survey of complexity theory, emphasizing the field's insights and challenges. He explains the ideas

and motivations leading to key models, notions, and results. In particular, he looks at algorithms and complexity, computations and proofs, randomness and interaction, quantum and arithmetic computation, and cryptography and learning, all as parts of a cohesive whole with numerous cross-influences. Wigderson illustrates the immense breadth of the field, its beauty and richness, and its diverse and growing interactions with other areas of mathematics. He ends with a comprehensive look at the theory of computation, its methodology and aspirations, and the unique and fundamental ways in which it has shaped and will further shape science, technology, and society. For further reading, an extensive bibliography is provided for all topics covered. Mathematics and Computation is useful for undergraduate and graduate students in mathematics, computer science, and related fields, as well as researchers and teachers in these fields. Many parts require little background, and serve as an invitation to newcomers seeking an introduction to the theory of computation. Comprehensive coverage of computational complexity theory, and beyond High-level, intuitive exposition, which brings conceptual clarity to this central and dynamic scientific discipline Historical accounts of the evolution and motivations of central concepts and models A broad view of the theory of computation's influence on science, technology, and society Extensive bibliography *Selected Areas in Cryptography* Lars R. Knudsen 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.

Advances in Cryptology - ASIACRYPT 2008 Josef Pawel Pieprzyk 2008-12-02 This book constitutes the refereed proceedings of the 14th International Conference on the Theory and Application of Cryptology and Information Security, ASIACRYPT 2008, held in Melbourne, Australia, in December 2008. The 33 revised full papers presented together with the abstract of 1 invited lecture were carefully reviewed and selected from 208 submissions. The papers are organized in topical sections on muliti-party computation, cryptographic protocols, cryptographic hash functions, public-key cryptograhy, lattice-based cryptography, private-key cryptograhy, and analysis of stream ciphers.

Security, Privacy, and Applied Cryptography Engineering Rajat Subhra Chakraborty 2014-10-08 This book constitutes the refereed proceedings of the 4th International Conference on Security, Privacy, and Applied Cryptography Engineering held in Pune, India, in October 2014. The 19 papers presented together with two invited papers were carefully reviewed and selected from 66 submissions. The papers are organized in topical sections on cryptographic building blocks; mini tutorial; attacks and countermeasures; tools and methods; and secure systems and applications.

Encyclopedia of Cryptography and Security Henk C.A. van Tilborg 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; Cryptanalysis and 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. Public Key Cryptography - PKC 2010 Phong Q. Nguyen 2010-05-15 Annotation This book constitutes the refereed proceedings of the 13th International Conference on Practice and Theory in Public Key Cryptography, PKC 2010, held in Paris, France, in May 2010. The 29 revised full papers presented were carefully reviewed and selected from 145 submissions. The papers are organized in topical sections on encryption; cryptanalysis; protocols; network coding; tools; elliptic curves; lossy trapdoor functions; discrete logarithm; and

signatures.