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Fast Software Encryption - Alex Biryukov - 2007

Advances in Cryptology - ASIACRYPT 2009 - Mitsuru Matsui - 2009-12-01

This book constitutes the refereed proceedings of the 15th International Conference on the Theory and Application of Cryptographic Techniques, ASIACRYPT 2009, held in Tokyo, Japan, in December 2009. The 41 revised full papers presented were carefully reviewed and selected from 128 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 functions II, models and frameworks I, cryptanalysis: squares and quadratic, models and framework II, hash functions III, lattice-based, and side channels.

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Selected Areas in Cryptography - Matsui Mitsu - 2004-05-17

This book constitutes the refereed proceedings of the 10th Annual International Workshop on Selected Areas in Cryptography, SAC 2003, held in Ottawa, Canada, in August 2003. The 25 revised full papers presented were carefully reviewed and selected from 298 submissions. The papers are organized in topical sections on elliptic and hyperelliptic curves, side channel attacks, security protocol applications, and cryptanalysis, cryptographic primitives, stream ciphers, and efficient implementations.

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Advances in Cryptology - EUROCRYPT 2010 - Henri Gilbert - 2010-05-20

This book constitutes the refereed proceedings of the 30th Annual International Conference on the Theory and Applications of Cryptographic Techniques, EUROCRYPT 2010, held on the French Riviera, in May/June 2010. The 32 revised full papers presented together with 1 invited lecture were carefully reviewed and selected from 182 submissions in two rounds of reviewing and improvement. The papers are organized in topical sections on cryptosystems; obfuscation and side channel security; 2-party protocols; cryptanalysis; automated tools and formal methods; models and proofs; multiparty protocols; hash and MAC and foundational primitives.

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The 9th Australasian Conference on Information Security and Privacy (ACISP 2004) was held in Sydney, 13–15 July, 2004. The conference was sponsored by the Centre for Advanced Computing - Algorithms and Cryptography (ACAC), Information and Networked Security Systems Research (INSS), Macquarie University and the Australian Computer Society. The conference covered a range of aspects including cryptography, cryptanalysis, systems and security network research. The conference program committee accepted 49 papers from 155 submissions. The review process took six weeks and each paper was carefully evaluated by at least three members of the program committee. The underlying mathematics and the wide trail strategy as the basic design idea are explained in detail and the basics of differential and linear cryptanalysis are reworked. Subsequent chapters review all known attacks against the Rijndael structure and point out the intricacies of developing, evaluating, testing, and implementing such schemes. This book was written by two of the field's leading researchers, and describes state-of-the-art research in a clear and completely contained manner.

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 cryptography, cryptanalysis, and as well 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, multiparty computation, block cipher, side-channel attacks, secret sharing and secure computation, cryptography and game-theory, cryptography and lattices, identity-based encryption and cryptographers' toolboxes.

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The Design of Rijndael - Joan Daemen - 2003-03-09

An authoritative and comprehensive guide to the Rijndael algorithm and Advanced Encryption Standard (AES). AES is expected to gradually replace the Data Encryption Standard (DES) as the most widely applied data encryption technology. This book, written by the designers of the block cipher, presents Rijndael from scratch. The underlying mathematics and the wide trail strategy as the basic design idea are explained in detail and the basics of differential and linear cryptanalysis are reworked. Subsequent chapters review all known attacks against the Rijndael structure and deal with implementation and optimization issues. Finally, other current research related to Rijndael is discussed.
the differential and linear attacks, and their extensions and generalizations. Then the more advanced attacks such as the boomerang and rectangle attacks are discussed, along with their related-key variants. Finally, other attacks are explored, in particular combined attacks that are built on top of other attacks. The book concludes with the mathematical foundations of the analysis itself. These are complemented by an extensive bibliography and numerous examples, mainly involving widely deployed block ciphers. The book is intended as a reference book for graduate students and researchers in the field of cryptology.

Advances in Cryptology – EUROCRYPT 2013 - Thomas Johansson - 2013-05-09

This book constitutes the refereed proceedings of the 39th International Conference on the Theory and Applications of Cryptographic Techniques, EUROCRYPT 2013, held in Athens, Greece, in May 2013. The 41 full papers included in this volume were carefully reviewed and selected from 201 submissions. They deal with cross-organizational issues, covering the whole spectrum of theoretical, practical, and applied cryptography. The contributions are organized in topical sections on lattices, number theory, lattice, public key encryption, digital signatures, homomorphic cryptography, quantum cryptography, storage, tools, and secure computation.

Advances in Cryptology – ASIACRYPT 2013 - Doo-Hoon Lee - 2013-12-01

This book constitutes the refereed proceedings of the 19th International Conference on the Theory and Applications of Cryptographic Techniques, ASIACRYPT 2013, held in Seoul, Korea, in December 2013. The 40 revised papers included in this volume were carefully reviewed and selected from 102 submissions. The contributions are organized in topical sections on lattices and quantam cryptography; public key encryption; database privacy; hash function; symmetric key encryption; zero knowledge proof; universal composability; foundation; secure computation and secret sharing; public key signature; and leakage resilient cryptanalysis.

Information Security and Cryptology – ICISC 2010 - Kyung-Hyun Ihm - 2011-08-23

This book constitutes the refereed proceedings of the 13th International Conference on Information Security and Cryptology, ICISC 2010, held in Seoul, Korea, in December 2010. The 23 revised full papers included in this volume were carefully reviewed and selected from 42 submissions. The contributions are organized in topical sections on satalite cryptography, algorithmic cryptography, implementation, and network and mobile security.

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Progress in Cryptology – INDOCRYPT 2016 - Orr Dunkelman - 2016-11-09

This book constitutes the refereed proceedings of the 17th International Conference on Cryptology in India, INDOCRYPT 2016, held in Kolkata, India, in December 2016. The 21 revised full papers presented were carefully reviewed and selected from 62 submissions. The contributions are organized in topical sections on lattices and quantum cryptography, public key encryption, database privacy, hash function, symmetric key encryption, zero knowledge proof, universal composability, foundation, secure computation and secret sharing, public key signature, and leakage resilient cryptanalysis.

Cryptanalysis of RSA and Its Variants - M. Jason Hink - 2009-07-21

This book is a comprehensive survey of cryptanalysis of RSA and its variants, covering the main attacks used in practice and their history. The book is intended as a reference book for graduate students and researchers in the field of cryptology.

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cryptography; symmetric cipher; signature; network security and blockchain; cryptographic primitives; mathematical foundation; machine learning security; among others. *The conference was held virtually due to COVID-19 pandemic.*

**Information Security and Privacy - Joseph K. Liu - 2020-08-07**

This book constitutes the refereed proceedings of the 25th Australian Conference on Information Security and Privacy, ACISP 2020, held in Perth, WA, Australia, in November 2020. The 31 revised full papers and 5 short papers presented were carefully reviewed and selected from 151 submissions. The papers present and discuss the latest research, trends, breakthroughs, and challenges in the domain of information security, privacy and cybersecurity on a variety of topics such as post-quantum cryptography, symmetric cipher; signature; network security and blockchain; cryptographic primitives; mathematical foundation; machine learning security, among others. *The conference was held virtually due to COVID-19 pandemic.*

**Progress in Cryptology - INDOCRYPT 2011 - Daniil J. Bernstein - 2011-12-07**

This book constitutes the refereed proceedings of the 12th International Conference on Cryptology in India, INDOCRYPT 2011, held in Chennai, India, in December 2011. The 22 revised full papers presented together with the abstracts of 3 invited talks and 3 tutorials were carefully reviewed and selected from 127 submissions. The papers are organized in topical sections on side-channel attacks, secret-key cryptography, hash functions, protocols, and protocols.

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**Fast Software Encryption - Antoine Joux - 2011-06-24**

This book constitutes the thoroughly refereed post-conference proceedings of the 18th International Workshop on Fast Software Encryption, held in Ljublj, Denmark, in February 2011. The 22 revised full papers presented together with 1 invited lecture were carefully reviewed and selected from 106 initial submissions. The papers are organized in topical sections on differential cryptanalysis, hash functions, security and models, stream ciphers, block ciphers and modes, as well as linear and differential cryptanalysis.

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**The Block Cipher Companion - Lars R. Knudsen - 2011-10-25**

Block ciphers encrypt blocks of plaintext, messages, into blocks of ciphertext under the action of a secret key, and the process of encryption is reversed by decryption which uses the same user-supplied key. Block ciphers are fundamental to modern cryptography, in fact they are the most widely used cryptographic primitive - useful in their own right, and in the construction of other cryptographic mechanisms. In this book the authors provide a technically detailed, yet readable, account of the state of the art of block cipher analysis, design, and deployment. The authors first describe the most prominent block ciphers and give insights into their design. They then consider the role of the cryptanalyst, the adversary, and provide an overview of some of the most important cryptanalytic methods. The book will be of value to graduate and senior undergraduate students of cryptography and to professionals engaged in cryptographic design. An important feature of the presentation is the authors' exhaustive bibliography of the field, each chapter closing with comprehensive supporting notes.

**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 RFID 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.

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