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Advances in Cryptology ASIACRYPT 2016 May 05 2021 The two-volume set LNCS 10031 and LNCS 10032 constitutes the refereed proceedings of the 22nd International Conference on the Theory and Applications of Cryptology and Information Security, ASIACRYPT 2016, held in Hanoi, Vietnam, in December 2016. The 67 revised full papers and 2 invited talks presented were carefully selected from 240 submissions. They are organized in topical sections on Mathematical Analysis; AES and White-Box; Hash Function; Randomness; Authenticated Encryption; Block Cipher; SCA and Leakage Resilience; Zero Knowledge; Post Quantum Cryptography; Provable Security; Digital Signature; Functional and Homomorphic Cryptography; ABE and IBE; Foundation; Cryptographic Protocol; Multi-Party Computation.

The Leadership Challenge Workshop Feb 02 2021 Backed by over 25 years of original research, The Leadership Challenge Workshop is an intense discovery process created by best-selling authors, Jim Kouzes and Barry Posner. The Workshop demystifies the concepts of leadership and leadership development and approaches it as a measurable, learnable, and teachable set of

behaviors, establishing a unique underlying philosophy□leadership is everyone's business. This Participant Workbook provides everything needed for high-impact workshops for participants.

Teaching the Common Core Math Standards with Hands-On Activities, Grades 9-12 Dec 12 2021 Bring Common Core Math into high school with smart, engaging activities Teaching Common Core Math Standards with Hands-On Activities, Grades 9-12 provides high school teachers with the kind of help they need to begin teaching the standards right away. This invaluable guide pairs each standard with one or more classroom-ready activities and suggestions for variations and extensions. Covering a range of abilities and learning styles, these activities bring the Common Core Math Standards to life as students gain fluency in math communication and develop the skillset they need to tackle successively more complex math courses in the coming years. Make math anxiety a thing of the past as you show your students how they use math every day of their lives, and give them the cognitive tools to approach any math problem with competence and confidence. The Common Core Standards define the knowledge and skills students need to graduate high school fully prepared for college and careers. Meeting these standards positions American students more competitively in the global economy, and sets them on a

track to achieve their dreams. This book shows you how to teach the math standards effectively, and facilitate a deeper understanding of math concepts and calculations. Help students apply their understanding of math concepts Teach essential abstract and critical thinking skills Demonstrate various problem-solving strategies Lay a foundation for success in higher mathematics The rapid adoption of the Common Core Standards across the nation has left teachers scrambling for aligned lessons and activities. If you want to bring new ideas into the classroom today, look no further. Teaching Common Core Math Standards with Hands-On Activities is the high school math teacher's solution for smart, engaging Common Core math.

Advances in Cryptology ASIACRYPT 2022 Sep 21 2022 The four-volume proceedings LNCS 13791, 13792, 13793, and 13794 constitute the proceedings of the 28th International Conference on the Theory and Application of Cryptology and Information Security, ASIACRYPT 2022, held in Taipei, Taiwan, during December 5-9, 2022. The total of 98 full papers presented in these proceedings was carefully reviewed and selected from 364 submissions. The papers were organized in topical sections as follows: Part I: Award papers; functional and witness encryption; symmetric key cryptanalysis; multiparty computation; real world protocols; and blockchains and cryptocurrencies. Part II: Isogeny based

cryptography; homomorphic encryption; NIZK and SNARKs; non interactive zero knowledge; and symmetric cryptography. Part III: Practical cryptography; advanced encryption; zero knowledge; quantum algorithms; lattice cryptoanalysis. Part IV: Signatures; commitments; theory; cryptoanalysis; and quantum cryptography.

Theory of Cryptography Jan 25 2023 The two-volume set LNCS 9562 and LNCS 9563 constitutes the refereedproceedings of the 13th International Conference on Theory ofCryptography, TCC 2016, held in Tel Aviv, Israel, in January 2016. The 45 revised full papers presented were carefully reviewed andselected from 112 submissions. The papers are organized in topicalsections on obfuscation, differential privacy, LWR and LPN, public key encryption, signatures, and VRF, complexity of cryptographic primitives, multiparty computation, zero knowledge and PCP, oblivious RAM, ABE and IBE, and codes and interactive proofs. The volume also includes an invited talk on cryptographic assumptions.

Information Security and Cryptology Jul 27 2020 This book constitutes the thoroughly refereed post-conference proceedings of the 12th International Conference on Information Security and Cryptology, Inscrypt 2016, held in Beijing, China, in November 2016. The 32 revised full papers presented were carefully

reviewed and selected from 93 submissions. The papers are organized in topical sections on symmetric ciphers; public-key cryptosystems; signature and authentication; homomorphic encryption; leakage-resilient; post-quantum cryptography; commitment and protocol; elliptic curves; security and implementation.

The Leadership Challenge Aug 28 2020 Compiled by training and consulting expert Elaine Biech, this new Leadership Challenge resource provides practical information and tools for demonstrating and teaching The Five Practices of Exemplary Leadership to audiences both new to or already familiar with the model. Filled with 75 experiential learning activities and games, each keyed to a specific practice(s), this book is an excellent addition to a facilitator's existing The Leadership Challenge and the Leadership Practices Inventory (LPI) or other leadership development program. This book will feature contributions from experienced Leadership Challenge facilitators and other greats in the training industry.

Transitioning to Quantum-Safe Cryptography on IBM Z Jun 18 2022 As cyberattacks continue to increase, the cost and reputation impacts of data breaches remain a top concern across all enterprises. Even if sensitive data is encrypted and is of no use now, cybercriminals are harvesting that data because they might gain access to a quantum computer that can break classical

cryptographic algorithms sometime in the future. Therefore, organizations must start protecting their sensitive data today by using quantum-safe cryptography. This IBM® Redbooks® publication reviews some potential threats to classical cryptography by way of quantum computers and how to make best use of today's quantum-safe capabilities on the IBM Z platform. This book also provides guidance about how to get started on a quantum-safe journey and step-by-step examples for deploying IBM Z® quantum-safe capabilities. This publication is intended for IT managers, IT architects, system programmers, security administrators, and anyone who needs to plan for, deploy, and manage quantum-safe cryptography on the IBM Z platform. The reader is expected to have a basic understanding of IBM Z security concepts.

Topics in Cryptology - CT-RSA 2009 Apr 16 2022 This book constitutes the refereed proceedings of the Cryptographers' Track at the RSA Conference 2009, CT-RSA 2009, held in San Francisco, CA, USA in April 2009. The 31 revised full papers presented were carefully reviewed and selected from 93 submissions. The papers are organized in topical sections on identity-based encryption, protocol analysis, two-party protocols, more than signatures, collisions for hash functions, cryptanalysis, alternative encryption, privacy and anonymity, efficiency improvements, multi-party

protocols, security of encryption schemes as well as countermeasures and faults.

The Challenge Continues, Participant Workbook Jul 19 2022 Continue Your Leadership Journey With a Deep Dive Into Enable Others to Act Over the last twenty-five years, The Leadership Challenge established a reputation as a research-driven, evidence-based leadership development model with a simple, yet profound, principle at its core: leadership is a measurable and learnable set of behaviors. The Challenge Continues program offers you the opportunity to take a deeper dive into the Enable Others to Act leadership practice. Designed for leaders familiar with The Leadership Challenge principles and its Five Practices of Exemplary Leadership foundational model, this new program addresses the important question: "What's Next?" The fourth of bestselling authors Jim Kouzes and Barry Posner's Five Practices, Enable Others to Act is about: Fostering collaboration by building trust and facilitating relationships Strengthening others by increasing self-determination and developing competence Your Participant Workbook is a hands-on tool, designed to accompany you on the next phase of your personal leadership development journey. Beginning with a focus on what you have already accomplished and what has gone well with this Practice, the pages then guide you through several interactive

exercises and a practical process for expanding and refining your Enable Others to Act skills. You will also explore ways in which can develop your team members and influence the broader spheres of you work unit or organization. Finishing up the module with a detailed action plan, you will leave the session with a detailed map for continuing your journey toward exceptional leadership.

The Leadership Challenge Sep 28 2020 When it was initially written in 1987, few could have predicted that The Leadership Challenge would become one of the best-selling leadership books of all time. Now, faced with the new challenges of our unpredictable global business environment, Jim Kouzes and Barry Posner--two of the country's premier leadership experts--have completely revised and updated their classic book. Building on the knowledge base of their previous books, the third edition of The Leadership Challenge is grounded in extensive research and based on interviews with all kinds of leaders at all levels in public and private organizations from around the world. In this edition, the authors emphasize that the fundamentals of leadership are the same today as they were in the 1980s, and as they've probably been for centuries. In that sense, nothing's new. Leadership is not a fad. While the content of leadership has not changed, the context has-and in some cases, changed dramatically.

Secure Transaction Protocol Analysis Aug 08 2021 The application of formal methods to security protocol analysis has attracted increasing attention in the past two decades, and recently has been sh- ing signs of new maturity and consolidation. The development of these formal methodsismotivatedbythehostilenatureofsomeaspectsofthenetworkand the persistent e?orts of intruders, and has been widely discussed among - searchers in this ?eld. Contributions to the investigation of novel and e?cient ideas and techniques have been made through some important conferences and journals, such asESORICS,CSFW andACM Transactions in Computer Systems. Thus, formal methods have played an important role in a variety of applications such as discrete system analysis for cryptographic protocols, - lief logics and state exploration tools. A complicated security protocol can be abstractedasamanipulationofsymbolsandstructurescomposedbysymbols. The analysis of e-commerce (electronic commerce) protocols is a particular case of such symbol systems. There have been considerable e?orts in developing a number of tools for ensuring the security of protocols, both specialized and general-purpose, such as belief logic and process algebras. The application of formal methods starts with the analysis of key-distribution protocols for communication between two principals at an early stage. With the performance of transactions - coming more and

more dependent on computer networks, and cryptography becoming more widely deployed, the type of application becomes more varied and complicated. The emerging complex network-based transactions such as ?nancial transactionsand secure groupcommunication have not only brought innovationstothecurrentbusinesspractice,butthey alsoposeabigchallenge to protect the information transmitted over the open network from malicious attacks.

Modern Cryptography with Proof Techniques and Implementations Aug 20 2022 Proof techniques in cryptography are very difficult to understand, even for students or researchers who major in cryptography. In addition, in contrast to the excessive emphases on the security proofs of the cryptographic schemes, practical aspects of them have received comparatively less attention. This book addresses these two issues by providing detailed, structured proofs and demonstrating examples, applications and implementations of the schemes, so that students and practitioners may obtain a practical view of the schemes. Seong Oun Hwang is a professor in the Department of Computer Engineering and director of Artificial Intelligence Security Research Center, Gachon University, Korea. He received the Ph.D. degree in computer science from the Korea Advanced Institute of Science and Technology (KAIST),

Korea. His research interests include cryptography, cybersecurity, networks, and machine learning. Intae Kim is an associate research fellow at the Institute of Cybersecurity and Cryptology, University of Wollongong, Australia. He received the Ph.D. degree in electronics and computer engineering from Hongik University, Korea. His research interests include cryptography, cybersecurity, and networks. Wai Kong Lee is an assistant professor in UTAR (University Tunku Abdul Rahman), Malaysia. He received the Ph.D. degree in engineering from UTAR, Malaysia. In between 2009 – 2012, he served as an R&D engineer in several multinational companies including Agilent Technologies (now known as Keysight) in Malaysia. His research interests include cryptography engineering, GPU computing, numerical algorithms, Internet of Things (IoT) and energy harvesting.

Theory of Cryptography Jun 25 2020 This book constitutes the refereed proceedings of the 11th Theory of Cryptography Conference, TCC 2014, held in San Diego, CA, USA, in February 2014. The 30 revised full papers presented were carefully reviewed and selected from 90 submissions. The papers are organized in topical sections on obfuscation, applications of obfuscation, zero knowledge, black-box separations, secure computation, coding and cryptographic applications, leakage, encryption, hardware-aided

secure protocols, and encryption and signatures.
Public Key Cryptography - PKC 2009 Oct 22 2022 This book constitutes the refereed proceedings of the 12th International Conference on Practice and Theory in Public-Key Cryptography, PKC 2009, held in Irvine, CA, USA, in March 2009. The 28 revised full papers presented were carefully reviewed and selected from 112 submissions. The papers are organized in topical sections on number theory, applications and protocols, multi-party protocols, identity-based encryption, signatures, encryption, new cryptosystems and optimizations, as well as group signatures and anonymous credentials.
The Internet Encyclopedia, Volume 3 (P - Z) Oct 10 2021 The Internet Encyclopedia in a 3-volume reference work on the internet as a business tool, IT platform, and communications and commerce medium.
Information Security and Privacy Oct 30 2020 This book constitutes the refereed proceedings of the 16th Australasian Conference on Information Security and Privacy, ACISP 2011, held in Melbourne, Australia, in July 2011. The 24 revised full papers presented together with an invited talk and 9 poster papers were carefully reviewed and selected from 103 submissions. The papers are organized in topical sections on symmetric key cryptography, hash functions, cryptographic protocols, access control and security, and public key

cryptography.

The Leadership Challenge Workbook Nov 11 2021 Based on Jim Kouzes and Barry Posner's classic book The Leadership Challenge, this Workbook will be your hands-on guide for improving your ability to put into action the Five Practices of Exemplary Leadership® model and become a leader who Models the Way, Inspires a Shared Vision, Challenges the Process, Enables Others to Act, and Encourages the Heart. The Workbook's easy-to-use worksheets make efficient planning simple and practical and supports your success in three ways: Reflection: Think about your approach to leadership and become more conscious about how well you engage in each of the Practices. Application: Apply the Practices and commitments to all your projects. Implications: Record what you've learned about yourself, your team, your organization, and your project. Develop your leadership potential with The Leadership Challenge Workbook!

Contemporary Challenges in Cooperation and Coopetition in the Age of Industry 4.0 Nov 23 2022 This proceedings volume provides a fresh perspective on current challenges in cooperation and coopetition in the age of Industry 4.0. Featuring selected papers from the 10th Conference on Management of Organizations Development (MOD) held in Zamek Gniew, Poland, this volume extends the knowledge of cooperation and

coopetition, presents analytic tools used in the research, considers the potential impact of Industry 4.0 on collaboration, and provides recommendations for managerial practice. Interorganizational relations have been a relevant topic in the management sciences in recent years. Globalization, social, cultural, and technological progress are among the factors shaping the environment for collaboration, determining the conditions for development and defining a set of new challenges that managers have to face in today's knowledge-based economy. This book, therefore, explores emerging problems of organizational development in the light of the needs and challenges of Industry 4.0. Combining the latest theory and practice, the volume provides a realistic outlook on the network economy and interdependencies both within and between sectors.

Integrity in Public Procurement Good Practice from A to Z Sep 09 2021 Provides, for the first time, a comparative overview of practices from A to Z. It maps out practices to enhance integrity throughout the whole procurement cycle, from needs assessment to contract management. It also takes a global stance by including practices from non-OECD countries.

Advanced Information Systems Engineering Workshops Feb 14 2022 This book constitutes the thoroughly refereed proceedings of the international workshops

associated with the 34th International Conference on Advanced Information Systems Engineering, CAiSE 2022, which was held in Leuven, Belgium, during June 6-10, 2022. The workshops included in this volume are: · BC4IS: Second International Workshop on Blockchain for Information Systems · ISESL: Second International Workshop on Information Systems Engineering for Smarter Life · KET4DF: 4th International Workshop on Key Enabling Technology for Digital Factories They reflect a broad range of topics and trends ranging from blockchain technologies via digital factories, ethics, and ontologies, to the agile methods for business and information systems. The 11 full papers and 1 short paper presented in this book were carefully reviewed and selected from 23 submissions.

Internet of Things A to Z Mar 23 2020 A comprehensive overview of the Internet of Things core concepts, technologies, and applications Internet of Things A to Z offers a holistic approach to the Internet of Things (IoT) model. The Internet of Things refers to uniquely identifiable objects and their virtual representations in an Internet-like structure. Recently, there has been a rapid growth in research on IoT communications and networks, that confirms the scalability and broad reach of the core concepts. With contributions from a panel of international experts, the text offers insight into the ideas, technologies, and applications of this subject. The

authors discuss recent developments in the field and the most current and emerging trends in IoT. In addition, the text is filled with examples of innovative applications and real-world case studies. Internet of Things A to Z fills the need for an up-to-date volume on the topic. This important book: Covers in great detail the core concepts, enabling technologies, and implications of the Internet of Things Addresses the business, social, and legal aspects of the Internet of Things Explores the critical topic of security and privacy challenges for both individuals and organizations Includes a discussion of advanced topics such as the need for standards and interoperability Contains contributions from an international group of experts in academia, industry, and research Written for ICT researchers, industry professionals, and lifetime IT learners as well as academics and students, Internet of Things A to Z provides a much-needed and comprehensive resource to this burgeoning field.

The Leadership Challenge Apr 04 2021 The most trusted resource on becoming a leader is now updated and revised for a new generation. This leadership classic continues to be a bestseller after three editions and twenty years in print. It is the gold standard for research-based leadership, and the premier resource on becoming a leader. This new edition, with streamlined text, more international and business examples, and a

graphic redesign, is more readable and accessible than ever before. The Leadership Challenge, Fourth Edition, has been extensively updated with the latest research and case studies, and offers inspiring new stories of real people achieving extraordinary results. The authors' central theme remains the same and is more relevant today than ever: "Leadership is Everyone?s Business." Their "five practices" and "ten commitments" have been proven by hundreds of thousands of dedicated, successful leaders. This edition, with almost one-third new material, emphasizes the global community and refocuses on business leaders.

Introduction to Security Reduction Dec 24 2022 This monograph illustrates important notions in security reductions and essential techniques in security reductions for group-based cryptosystems. Using digital signatures and encryption as examples, the authors explain how to program correct security reductions for those cryptographic primitives. Various schemes are selected and re-proven in this book to demonstrate and exemplify correct security reductions. This book is suitable for researchers and graduate students engaged with public-key cryptography.

Mergers & Acquisitions from A to Z Jan 13 2022 Mergers and acquisitions represent a successful growth strategy for many companies, but, while potentially profitable, MA transactions are complex and often risky.

Covering the latest trends, developments, and best practices for the post-Madoff era, this comprehensive, hands-on resource walks readers through every step of the process, offering practical advice for keeping deals on track and ensuring postclosing integration success. Filled with case studies and war stories illustrating what works and why, the third edition of Mergers and Acquisitions from A to Z offers valuable tools, checklists, and sample documents, providing crucial guidance on: preparing for and initiating the deal; regulatory considerations; due diligence; deal structure; valuation and pricing; and financing even during turbulent market conditions. MA transactions can quickly spell a company's doom if they are not conceived and executed carefully, legally, and sensibly. This is the classic guide to mergers and acquisitions, now completely updated for today's market.

The A to Z of Ethics Nov 30 2020 The A to Z of Ethics covers a very broad range of ethical topics, including ethical theories, historical periods, historical figures, applied ethics, ethical issues, ethical concepts, non-Western approaches, and related disciplines. Harry J. Gensler and Earl W. Spurgin tackle such issues as abortion, capital punishment, stem cell research, and terrorism while also explaining key theories like utilitarianism, natural law, social contract, and virtue ethics.

Public Key Cryptography - PKC 2006 Jan 21 2020 Here are the refereed proceedings of the 9th International Conference on Theory and Practice in Public-Key Cryptography, PKC 2006, held in New York City in April 2006. The 34 revised full papers presented are organized in topical sections on cryptanalysis and protocol weaknesses, distributed crypto-computing, encryption methods, cryptographic hash and applications, number theory algorithms, pairing-based cryptography, cryptosystems design and analysis, signature and identification, authentication and key establishment, multi-party computation, and PKI techniques.

Abstract State Machines, B and Z Feb 20 2020 This book constitutes the refereed proceedings of the First International Conference of Abstract State Machines, B and Z, ABZ 2008, held in London, UK, in September 2008. The conference simultaneously incorporated the 15th International ASM Workshop, the 17th International Conference of Z Users and the 8th International Conference on the B Method. The 44 revised full papers presented together with 4 invited contributions were carefully reviewed and selected from numerous submissions. The conference fosters the cross-fertilization of three rigorous methods for the design and analysis of hardware and software systems - both in academia and industry - namely Abstract State

Machines, B, and Z. Covering a wide range of research spanning from theoretical and methodological foundations to tool support and practical applications, the contributions are organized in topical sections on abstract state machines, B papers, Z papers, ABZ short papers, and the papers of the Verified Software Repository Network (VSR-net) workshop.

Public Key Cryptography -- PKC 2004 Jan 01 2021 PKC 2004wasthe7thInternationalWorkshoponPracticeandTheoryinPublic Key Cryptography and was sponsored by IACR, the International Association for Cryptologic Research (www. iacr. org). This year the workshop was organized 2 in cooperation with the Institute for Infocomm Research (I R), Singapore. There were 106 paper submissions from 19 countries to PKC 2004. That is the highest submission number in PKC history. Due to the large number of submissionsandthehighqualityofthe submittedpapers,notallthepapersthat contained new ideas were accepted. Of the 106 submissions, 32 were selected for the proceedings. Each paper was sent to at least 3 members of the Program Committee for comments. The revised versions of the accepted papers were not checked for correctness of their scienti?c aspects and the authors bear the full responsibility for the contents of their papers. Some authors will write ?nal versions of their papers for publication in refereed journals. I am very grateful to the members of the

Program Committee for their hard work in the di?cult task of selecting fewer than 1 in 3 of the submitted papers, as well as the following external referees who helped the Program Committee: Nuttapong Attrapadung, RobertoMariaAvanzi,GildasAvoine,JoonsangBaek, Qingjun Cai, Jae Choon Cha, Chien-Ning Chen, Liqun Chen, Xiaofeng Chen, Koji Chida, Nicolas T. Courtois, Yang Cui, Jean-Franco ¸ is Dhem, Louis Goubin, Louis Granboulan, Rob Granger, Jens Groth, Yumiko Hanaoka, Darrel Hank- son,Chao-ChihHsu,TetsutaroKob ayashi,YuichiKomano,HidenoriKuwakado, TanjaLange,P eterLeadbitter,ByoungcheonLee,Chun-KoLee,HenryC. J. Lee, JohnMaloneLee,YongLi,Beno ?tLibert,Hsi-ChungLin,YiLu,JeanMonnerat, Anderson C. A. Nascimento, C.

Cryptography and Security: From Theory to Applications

Jul 07 2021 This Festschrift volume, published in honor of Jean-Jaques Quisquater on the occasion of his 65th Birthday, contains 33 papers from colleagues all over the world and deals with all the fields to which Jean-Jacques dedicated his work during his academic career. Focusing on personal tributes and re-visits of Jean-Jacques Quisquater's legacy, the volume addresses the following central topics: symmetric and asymmetric cryptography, side-channels attacks, hardware and implementations, smart cards, and information security. In addition there are four more contributions just "as diverse as Jean-

Jacques' scientific interests".

Foundations and Practice of Security Dec 20 2019 This book constitutes the carefully refereed and revised selected papers of the 4th Canada-France MITACS Workshop on Foundations and Practice of Security, FPS 2011, held in Paris, France, in May 2011. The book contains a revised version of 10 full papers, accompanied by 3 keynote addresses, 2 short papers, and 5 ongoing research reports. The papers were carefully reviewed and selected from 30 submissions. The topics covered are pervasive security and threshold cryptography; encryption, cryptanalysis and automatic verification; and formal methods in network security.

Advances in Cryptology EUROCRYPT 2019 Feb 26 2023 The three volume-set LNCS 11476, 11477, and 11478 constitute the thoroughly refereed proceedings of the 38th Annual International Conference on the Theory and Applications of Cryptographic Techniques, EUROCRYPT 2019,held in Darmstadt, Germany, in May 2019. The 76 full papers presented were carefully reviewed and selected from 327 submissions. The papers are organized into the following topical sections: ABE and CCA security; succinct arguments and secure messaging; obfuscation; block ciphers; differential privacy; bounds for symmetric cryptography; non-malleability; blockchain and consensus; homomorphic primitives; standards; searchable encryption and ORAM;

proofs of work and space; secure computation; quantum, secure computation and NIZK, lattice-based cryptography; foundations; efficient secure computation; signatures; information-theoretic cryptography; and cryptanalysis.

Public Key Cryptography May 25 2020

Provable Security Apr 23 2020 smoothly.

Public Key Infrastructure May 17 2022 This volume features the refereed proceedings from the 4th European Public Key Infrastructure Workshop: Theory and Practice, held in Palma de Mallorca, Spain in June 2007. Twenty-one full papers and eight short papers, contributed by experts in the field, are included. The papers address all current issues in public key infrastructure, ranging from theoretical and foundational topics to applications and regulatory issues.

Public-Key Cryptography PKC 2020 Apr 28 2023 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.

Advances in Cryptology -- ASIACRYPT 2006 Jun 06 2021 This book constitutes the refereed proceedings of the 12th International Conference on the Theory and Application of Cryptology and Information Security, held in Shanghai, China, December 2006. The 30 revised full papers cover attacks on hash functions, stream ciphers, biometrics and ECC computation, id-based schemes, public-key schemes, RSA and factorization, construction of hash function, protocols, block ciphers, and signatures.

System z Crypto and TKE Update Mar 27 2023 This IBM® Redbooks® publication provides detailed information about the implementation of hardware cryptography in the System z10® server. We begin by summarizing the history of hardware cryptography on IBM Mainframe servers, introducing the cryptographic support available on the IBM System z10, introducing the Crypto Express3 feature, briefly comparing the functions provided by the hardware and software, and providing a high-level overview of the application programming interfaces available for invoking cryptographic support. This book then provides detailed information about the Crypto Express3 feature,

discussing at length its physical design, its function and usage details, the services that it provides, and the API exposed to the programmer. This book also provides significant coverage of the CP Assist for Cryptographic Functions (CPACF). Details on the history and purpose of the CPACF are provided, along with an overview of cryptographic keys and CPACF usage details. A chapter on the configuration of the hardware cryptographic features is provided, which covers topics such as zeroizing domains and security settings. We examine the software support for the cryptographic functions available on the System z10 server. We look at the recent changes in the Integrated Cryptographic Service Facility (ICSF) introduced with level HCR7770 for the z/OS® operating system. A discussion of PKCS#11 support presents an overview of the standard and provides details on configuration and exploitation of PKCS#11 services available on the z/OS operating system. The Trusted Key Entry (TKE) Version 6.0 workstation updates are examined in detail and examples are presented on the configuration, usage, and exploitation of the new features. We discuss the cryptographic support available for Linux® on System z®, with a focus on the services available through the IBM Common Cryptographic Architecture (CCA) API. We also provide an overview on Elliptical Curve Cryptography (ECC), along with examples of exploiting

ECC using ICSF PKCS#11 services. Sample Rexx and Assembler code is provided that demonstrate the capabilities of CPACF protected keys.

Advances in Cryptology EUROCRYPT 2020 Mar 03 2021 The three volume-set LNCS 12105, 12106, and 12107 constitute the thoroughly refereed proceedings of the 39th Annual International Conference on the Theory and Applications of Cryptographic Techniques, EUROCRYPT 2020, which was due to be held in Zagreb, Croatia, in May 2020. The conference was held virtually due to the COVID-19 pandemic. The 81 full papers presented were carefully reviewed and selected from 375 submissions. The papers are organized into the following topical sections: invited talk; best paper awards; obfuscation and functional encryption; symmetric cryptanalysis; randomness extraction; symmetric cryptography I; secret sharing; fault-attack security; succinct proofs; generic models; secure computation I; quantum I; foundations; isogeny-based cryptography; lattice-based cryptography; symmetric cryptography II; secure computation II; asymmetric cryptanalysis; verifiable delay functions; signatures; attribute-based encryption; side-channel security; non-interactive zero-knowledge; public-key encryption; zero-knowledge; quantum II.

Practical Signcryption Mar 15 2022 In today's world, data must be sent around the world cheaply and

securely, and that requires origin authentication, integrity protection, and confidentiality the recipient of a message should be able to ascertain who sent the message, be sure that the message has not been changed en route, and be sure that the data arrives without having been read by anyone else. The second editor invented signcryption, an area of cryptography that studies systems that simultaneously provide origin authentication, integrity protection and confidentiality for data. Signcryption schemes combine the features of digital signature schemes with those of public-key encryption schemes and aim to provide security guarantees in a way that is provably correct and significantly less computationally expensive than the encrypt-then-sign method most commonly adopted in public-key cryptography. This is the first comprehensive book on signcryption, and brings together leading authors from the field of cryptography in a discussion of the different methods for building efficient and secure signcryption schemes, and the ways in which these schemes can be used in practical systems. Chapters deal with the theory of signcryption, methods for constructing practical signcryption schemes, and the advantages of using such schemes in practical situations. The book will be of benefit to cryptography researchers, graduate students and practitioners.

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