Ahmad-Reza Sadeghi
David Naccache (Eds.)

Towards Hardware-Intrinsic Security

Foundations and Practice

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Towards Hardware Intrinsic Security Foundations And Practice Information Security And Cryptography

Junfeng Fan,Benedikt Gierlichs

Towards Hardware Intrinsic Security Foundations And Practice Information Security And Cryptography:

Towards Hardware-Intrinsic Security Ahmad-Reza Sadeghi,David Naccache,2010-11-03 Hardware intrinsic security is a young field dealing with secure secret key storage By generating the secret keys from the intrinsic properties of the silicon e g from intrinsic Physical Unclonable Functions PUFs no permanent secret key storage is required anymore and the key is only present in the device for a minimal amount of time The field is extending to hardware based security primitives and protocols such as block ciphers and stream ciphers entangled with the hardware thus improving IC security While at the application level there is a growing interest in hardware security for RFID systems and the necessary accompanying system architectures This book brings together contributions from researchers and practitioners in academia and industry an interdisciplinary group with backgrounds in physics mathematics cryptography coding theory and processor theory It will serve as important background material for students and practitioners and will stimulate much further research and development **Towards Hardware-Intrinsic Security** Ahmad-Reza Sadeghi,David Naccache,2010-11-05 Hardware intrinsic security is a young field dealing with secure secret key storage This book features contributions from researchers and practitioners with backgrounds in physics mathematics cryptography coding theory and processor theory *Security, Privacy, and Applied Cryptography Engineering* Andrey Bogdanov,Somitra Sanadhya,2012-10-15 This book constitutes the refereed proceedings of the Second International Conference on Security Privacy and Applied Cryptography Engineering held in Chennai India in November 2012 The 11 papers presented were carefully reviewed and selected from 61 submissions The papers are organized in topical sections on symmetric key algorithms and cryptanalysis cryptographic implementations side channel analysis and countermeasures fault tolerance of cryptosystems physically unclonable functions public key schemes and cryptanalysis analysis and design of security protocol security of systems and applications high performance computing in cryptology and cryptography in ubiquitous devices Introduction to Hardware Security and Trust Mohammad Tehranipoor,Cliff Wang,2011-09-22 This book provides the foundations for understanding hardware security and trust which have become major concerns for national security over the past decade Coverage includes security and trust issues in all types of electronic devices and systems such as ASICs COTS FPGAs microprocessors DSPs and embedded systems This serves as an invaluable reference to the state of the art research that is of critical significance to the security of and trust in modern society s microelectronic supported infrastructures **Advances in Cryptology – EUROCRYPT 2017** Jean-Sébastien Coron,Jesper Buus Nielsen,2017-04-10 The three volume proceedings LNCS 10210 10212 constitute the thoroughly refereed proceedings of the 36th Annual International Conference on the Theory and Applications of Cryptographic Techniques EUROCRYPT 2017 held in Paris France in April May 2017 The 67 full papers included in these volumes were carefully reviewed and selected from 264 submissions The papers are organized in topical sections named lattice attacks and constructions obfuscation and functional encryption discrete logarithm multiparty computation universal

composability zero knowledge side channel attacks and countermeasures functional encryption elliptic curves symmetric cryptanalysis provable security for symmetric cryptography security models blockchain memory hard functions symmetric key constructions obfuscation quantum cryptography public key encryption and key exchange *Advances in Cryptology – ASIACRYPT 2019* Steven D. Galbraith,Shiho Moriai,2019-11-22 The three volume set of LNCS 11921 11922 and 11923 constitutes the refereed proceedings of the 25th International Conference on the Theory and Applications of Cryptology and Information Security ASIACRYPT 2019 held in Kobe Japan in December 2019 The 71 revised full papers presented were carefully reviewed and selected from 307 submissions They are organized in topical sections on Lattices Symmetric Cryptography Isogenies Obfuscation Multiparty Computation Quantum E cash and Blockchain Codes Authenticated Encryption Multilinear Maps Homomorphic Encryption Combinatorial Cryptography Signatures Public Key Encryption Side Channels Functional Encryption Zero Knowledge *Engineering Secure Two-Party Computation Protocols* Thomas Schneider,2012-08-04 Secure two party computation called secure function evaluation SFE enables two mutually mistrusting parties the client and server to evaluate an arbitrary function on their respective private inputs while revealing nothing but the result Originally the technique was considered to be too inefficient for practical privacy preserving applications but in recent years rapid speed up in computers and communication networks algorithmic improvements automatic generation and optimizations have enabled their application in many scenarios The author offers an extensive overview of the most practical and efficient modern techniques used in the design and implementation of secure computation and related protocols After an introduction that sets secure computation in its larger context of other privacy enhancing technologies such as secure channels and trusted computing he covers the basics of practically efficient secure function evaluation circuit optimizations and constructions hardware assisted garbled circuit protocols and the modular design of efficient SFE protocols The goal of the author s research is to use algorithm engineering methods to engineer efficient secure protocols both as a generic tool and for solving practical applications and he achieves an excellent balance between the theory and applicability The book is essential for researchers students and practitioners in the area of applied cryptography and information security who aim to construct practical cryptographic protocols for privacy preserving real world applications **Statistical Trend Analysis of Physically Unclonable Functions** Behrouz Zolfaghari,Khodakhast Bibak,Takeshi Koshiba,Hamid R. Nemati,Pinaki Mitra,2021-03-25 Physically Unclonable Functions PUFs translate unavoidable variations in certain parameters of materials waves or devices into random and unique signals They have found many applications in the Internet of Things IoT authentication systems FPGA industry several other areas in communications and related technologies and many commercial products Statistical Trend Analysis of Physically Unclonable Functions first presents a review on cryptographic hardware and hardware assisted cryptography The review highlights PUF as a mega trend in research on cryptographic hardware design Afterwards the authors present a combined survey and research work on PUFs using a systematic approach As part of the

survey aspect a state of the art analysis is presented as well as a taxonomy on PUFs a life cycle and an established ecosystem for the technology In another part of the survey the evolutionary history of PUFs is examined and strategies for further research in this area are suggested In the research side this book presents a novel approach for trend analysis that can be applied to any technology or research area In this method a text mining tool is used which extracts 1020 keywords from the titles of the sample papers Then a classifying tool classifies the keywords into 295 meaningful research topics The popularity of each topic is then numerically measured and analyzed over the course of time through a statistical analysis on the number of research papers related to the topic as well as the number of their citations The authors identify the most popular topics in four different domains over the history of PUFs during the recent years in top conferences and in top journals The results are used to present an evolution study as well as a trend analysis and develop a roadmap for future research in this area This method gives an automatic popularity based statistical trend analysis which eliminates the need for passing personal judgments about the direction of trends and provides concrete evidence to the future direction of research on PUFs Another advantage of this method is the possibility of studying a whole lot of existing research works more than 700 in this book This book will appeal to researchers in text mining cryptography hardware security and IoT **Information Security Theory and Practice. Security of Mobile and Cyber-Physical Systems** Lorenzo Cavallaro,Dieter Gollmann,2013-05-21 This volume constitutes the refereed proceedings of the 7th IFIP WG 11 2 International Workshop on Information Security Theory and Practices Security and Privacy of Mobile Devices in Wireless Communication WISTP 2013 held in Heraklion Crete Greece in May 2013 The 9 revised full papers presented together with two keynote speeches were carefully reviewed and selected from 19 submissions The scope of the workshop spans the theoretical aspects of cryptography and cryptanalysis mobile security smart cards and embedded devices *Cryptographic Hardware and Embedded Systems -- CHES 2011* Bart Preneel,Tsuyoshi Takagi,2011-09-12 This book constitutes the proceedings of the 13th International Workshop on Cryptographic Hardware and Embedded Systems CHES 2011 held in Nara Japan from September 28 until October 1 2011 The 32 papers presented together with 1 invited talk were carefully reviewed and selected from 119 submissions The papers are organized in topical sections named FPGA implementation AES elliptic curve cryptosystems lattices side channel attacks fault attacks lightweight symmetric algorithms PUFs public key cryptosystems and hash functions Advances in Cryptology – ASIACRYPT 2016 Jung Hee Cheon,Tsuyoshi Takagi,2016-11-14 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 **Advances in Cryptology – EUROCRYPT 2023** Carmit Hazay,Martijn Stam,2023-04-14 This five volume set LNCS 14004 14008 constitutes the refereed proceedings of the 42nd Annual International Conference on Theory and Applications of Cryptographic Techniques Eurocrypt 2023 which was held in Lyon France in April 2023 The total of 109 full papers presented were carefully selected from 415 submissions They are organized in topical sections as follows Theoretical Foundations Public Key Primitives with Advanced Functionalities Classic Public Key Cryptography Secure and Efficient Implementation Cryptographic Engineering and Real World Cryptography Symmetric Cryptology and finally Multi Party Computation and Zero Knowledge Constructive Side-Channel Analysis and Secure Design Junfeng Fan,Benedikt Gierlichs,2018-04-17 This book constitutes revised selected papers from the 9th International Workshop on Constructive Side Channel Analysis and Secure Design COSADE 2018 held in Singapore in April 2018 The 14 papers presented in this volume were carefully reviewed and selected from 31 submissions They were organized in topical sections named countermeasures against side channel attacks tools for side channel analysis fault attacks and hardware trojans and side channel analysis attacks *Secure Smart Embedded Devices, Platforms and Applications* Konstantinos Markantonakis,Keith Mayes,2013-09-14 New generations of IT users are increasingly abstracted from the underlying devices and platforms that provide and safeguard their services As a result they may have little awareness that they are critically dependent on the embedded security devices that are becoming pervasive in daily modern life Secure Smart Embedded Devices Platforms and Applications provides a broad overview of the many security and practical issues of embedded devices tokens and their operation systems platforms and main applications It also addresses a diverse range of industry government initiatives and considerations while focusing strongly on technical and practical security issues The benefits and pitfalls of developing and deploying applications that rely on embedded systems and their security functionality are presented A sufficient level of technical detail to support embedded systems is provided throughout the text although the book is quite readable for those seeking awareness through an initial overview of the topics This edited volume benefits from the contributions of industry and academic experts and helps provide a cross discipline overview of the security and practical issues for embedded systems tokens and platforms It is an ideal complement to the earlier work Smart Cards Tokens Security and Applications from the same editors Advances in Cryptology -- CRYPTO 2015 Rosario Gennaro,Matthew Robshaw,2015-07-31 The two volume set LNCS 9215 and LNCS 9216 constitutes the refereed proceedings of the 35th Annual International Cryptology Conference CRYPTO 2015 held in Santa Barbara CA USA in August 2015 The 74 revised full papers presented were carefully reviewed and selected from 266 submissions The papers are organized in the following topical sections lattice based cryptography cryptanalytic insights modes and constructions multilinear maps and IO pseudorandomness block cipher cryptanalysis integrity assumptions hash functions and stream cipher cryptanalysis implementations multiparty computation

zero knowledge theory signatures non signaling and information theoretic crypto attribute based encryption new primitives and fully homomorphic functional encryption **Constructive Side-Channel Analysis and Secure Design** Guido Marco Bertoni,Francesco Regazzoni,2021-02-05 This book constitutes revised selected papers from the 11th International Workshop on Constructive Side Channel Analysis and Secure Design COSADE 2020 held in Lugano Switzerland in April 2020 Due to COVID 19 the workshop was held online The 15 papers presented in this volume were carefully reviewed and selected from 36 submissions The workshop covers subjects from wide ranges such as secure design side channel attacks and countermeasures and architectures and protocols **Advances in Cryptology – EUROCRYPT 2015** Elisabeth Oswald,Marc Fischlin,2015-04-13 The two volume proceedings LNCS 9056 9057 constitutes the proceedings of the 34th Annual International Conference on the Theory and Applications of Cryptographic Techniques EUROCRYPT 2015 held in Sofia Bulgaria in April 2015 The 57 full papers included in these volumes were carefully reviewed and selected from 194 submissions The papers are organized in topical sections named honorable mentions random number generators number field sieve algorithmic cryptanalysis symmetric cryptanalysis hash functions evaluation implementation masking fully homomorphic encryption related key attacks fully monomorphic encryption efficient two party protocols symmetric cryptanalysis lattices signatures zero knowledge proofs leakage resilient cryptography garbled circuits crypto currencies secret sharing outsourcing computations obfuscation and e voting multi party computations encryption resistant protocols key exchange quantum cryptography and discrete logarithms Physically Unclonable Functions Roel Maes,2013-11-19 Physically unclonable functions PUFs are innovative physical security primitives that produce unclonable and inherent instance specific measurements of physical objects in many ways they are the inanimate equivalent of biometrics for human beings Since they are able to securely generate and store secrets they allow us to bootstrap the physical implementation of an information security system In this book the author discusses PUFs in all their facets the multitude of their physical constructions the algorithmic and physical properties which describe them and the techniques required to deploy them in security applications The author first presents an extensive overview and classification of PUF constructions with a focus on so called intrinsic PUFs He identifies subclasses implementation properties and design techniques used to amplify submicroscopic physical distinctions into observable digital response vectors He lists the useful qualities attributed to PUFs and captures them in descriptive definitions identifying the truly PUF defining properties in the process and he also presents the details of a formal framework for deploying PUFs and similar physical primitives in cryptographic reductions The author then describes a silicon test platform carrying different intrinsic PUF structures which was used to objectively compare their reliability uniqueness and unpredictability based on experimental data In the final chapters the author explains techniques for PUF based entity identification entity authentication and secure key generation He proposes practical schemes that implement these techniques and derives and calculates measures for assessing different PUF constructions in these

applications based on the quality of their response statistics Finally he presents a fully functional prototype implementation of a PUF based cryptographic key generator demonstrating the full benefit of using PUFs and the efficiency of the processing techniques described This is a suitable introduction and reference for security researchers and engineers and graduate students in information security and cryptography **Optical Network Design and Modeling** Anna Tzanakaki,Manos Varvarigos,Raul Muñoz,Reza Nejabati,Noboru Yoshikane,Markos Anastasopoulos,Johann Marquez-Barja,2020-02-15 This book constitutes the refereed proceedings of the 23rd International IFIP conference on Optical Network Design and Modeling ONDM 2019 held in Athens Greece in May 2019 The 39 revised full papers were carefully reviewed and selected from 87 submissions The papers focus on cutting edge research in established areas of optical networking as well as their adoption in support of a wide variety of new services and applications This involves the most recent trends in networking including 5G and beyond big data and network data analytics cloud edge computing autonomic networking artificial intelligence assisted networks secure and resilient networks that drive the need for increased capacity efficiency exibility and adaptability in the functions that the network can perform In this context new disaggregated optical network architectures were discussed exploiting and integrating novel multidimensional photonic technology solutions as well as adopting open hardware and software platforms relying on software defined networking SDN and network function virtualization NFV to allow support of new business models and opportunities *Physically Unclonable Functions (PUFs)* Christian Wachsmann,Ahmad-Reza Sadeghi,2022-05-31 Today embedded systems are used in many security critical applications from access control electronic tickets sensors and smart devices e g wearables to automotive applications and critical infrastructures These systems are increasingly used to produce and process both security critical and privacy sensitive data which bear many security and privacy risks Establishing trust in the underlying devices and making them resistant to software and hardware attacks is a fundamental requirement in many applications and a challenging yet unsolved task Solutions solely based on software can never ensure their own integrity and trustworthiness while resource constraints and economic factors often prevent the integration of sophisticated security hardware and cryptographic co processors In this context Physically Unclonable Functions PUFs are an emerging and promising technology to establish trust in embedded systems with minimal hardware requirements This book explores the design of trusted embedded systems based on PUFs Specifically it focuses on the integration of PUFs into secure and efficient cryptographic protocols that are suitable for a variety of embedded systems It exemplarily discusses how PUFs can be integrated into lightweight device authentication and attestation schemes which are popular and highly relevant applications of PUFs in practice For the integration of PUFs into secure cryptographic systems it is essential to have a clear view of their properties This book gives an overview of different approaches to evaluate the properties of PUF implementations and presents the results of a large scale security analysis of different PUF types implemented in application specific integrated circuits ASICs To analyze the security of PUF based

schemes as is common in modern cryptography it is necessary to have a security framework for PUFs and PUF based systems In this book we give a flavor of the formal modeling of PUFs that is in its beginning and that is still undergoing further refinement in current research The objective of this book is to provide a comprehensive overview of the current state of secure PUF based cryptographic system design and the related challenges and limitations Table of Contents Preface Introduction Basics of Physically Unclonable Functions Attacks on PUFs and PUF based Systems Advanced PUF Concepts PUF Implementations and Evaluation PUF based Cryptographic Protocols Security Model for PUF based Systems Conclusion Terms and Abbreviations Bibliography Authors Biographies

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