Power Analysis Attacks Revealing The Secrets Of Smart Cards Author Stefan Mangard Published On October 2010

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Volume 1
Side-Channel Analysis of Embedded Systems
Progress in Cryptology - INDOCRYPT 2011

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Constructive Side-Channel Analysis and Secure Design Springer
It has been more than 20 years since the seminal publications on side-channel attacks. They aim at extracting secrets from embedded systems while they execute cryptographic algorithms, and they consist of two steps, measurement and analysis. This useful textbook/guide tackles the analysis part, especially under situations where the targeted device is protected by random masking. The book advances in the field and provides the reader with mathematical formalizations. Furthermore, it presents all known analyses within the same notation framework, thereby allowing the reader to rapidly understand and learn contrasting approaches. The examples presented are taken from real-world datasets. This unique text/reference will be useful as a higher-level introduction to the topic, as well as for self-study by researchers and professionals needing a concise guidebook. Maamar Ouladj is an expert in embedded systems security, currently working in Algiers, Algeria. Sylvain Guilley is general manager and chief technical officer at Secure-IC S.A.S., currently working in Paris, France.
7th International Workshop, COSADE 2016, Graz, Austria, April 14-15, 2016, Revised Selected Papers Springer Science & Business Media
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.

8th International Conference, ACNS 2010, Beijing, China, June 22-25, 2010, Proceedings Springer Science & Business Media

This book constitutes the proceedings of the 8th International Conference on Applied Cryptography and Network Security, ACNS 2010, held in Beijing, China, in June 2010. The 32 papers presented in this volume were carefully reviewed and selected from 178 submissions. The papers are divided in topical sections on public key encryption, digital signature, block ciphers and hash functions, side-channel attacks, zero knowledge and multi-party protocols, key management, authentication and identification, privacy and anonymity, RFID security and privacy, and internet security.

Cryptographic Hardware and Embedded Systems -- CHES 2003 Springer

This book constitutes revised selected papers from the 20th International Conference on Information Security and Cryptology, ICISC 2017, held in Seoul, South Korea, in November/December 2017. The total of 20 papers presented in this volume were carefully reviewed and selected from 70 submissions. The papers were organized in topical sections named: symmetric key encryption; homomorphic encryption, side channel analysis and implementation; broadcast encryption; elliptic curve; signature and protocol; and network and system security.

Paradigms, Progress, and Perspectives Springer Science & Business Media

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.

Revealing the Secrets of Smart Cards Springer

This volume contains revised and extended research articles written by prominent researchers participating in ICFWI 2011 conference. The 2011 International Conference on Future Wireless Networks and Information Systems (ICFWI 2011) has been held on November 30 ~ December 1, 2011, Macao, China. Topics covered include Wireless Information Networks, Wireless Networking Technologies, Mobile Software and Services, intelligent computing, network management, power engineering, control engineering, Signal and Image Processing, Machine Learning, Control Systems and Applications, The book will offer the states of arts of tremendous advances in Wireless Networks and Information Systems and also serve as an excellent reference work for researchers and graduate students working on Wireless Networks and Information Systems.

Field-Coupled Nanocomputing Springer Science & Business Media

Amoral, cunning, ruthless, and instructive, this multi-million-copy New York Times bestseller is the definitive manual for anyone interested in gaining, observing, or defending against ultimate control – from the author of The Laws of Human Nature. In the book that People magazine proclaimed “beguiling” and “fascinating,” Robert Greene and Joost Elffers have distilled three thousand years of the history of power into 48 essential laws by drawing from the philosophies of Machiavelli, Sun Tzu, and Carl Von Clausewitz and also from the lives of figures ranging from Henry Kissinger to P.T. Barnum. Some laws teach the need for prudence (“Law 1: Never Outshine the Master”), others teach the value of confidence (“Law 28: Enter Action with Boldness”), and many recommend absolute self-preservation (“Law 15: Crush Your Enemy Totally”). Every law, though, has one thing in common: an interest in total domination. In a bold and arresting two-color package, The 48 Laws of Power is ideal whether your aim is conquest, self-defense, or simply to understand the rules of the game.

5th International Conference, SPACE 2015, Jaipur, India, October 3-7, 2015, Proceedings No Starch Press

This book constitutes the proceedings of the Second International Conference on Network Computing and Information Security, NCIS 2012, held in Shanghai, China, in December 2012. The 104 revised papers presented in this volume were carefully reviewed and selected from 517 submissions. They are organized in topical sections named: applications of cryptography; authentication and non-repudiation; cloud computing; communication and information systems; design and analysis of cryptographic algorithms; information hiding and watermarking; intelligent networked systems; multimedia computing and intelligence; network and wireless network security; network communication; parallel and distributed systems; security modeling and architectures; sensor network; signal and information processing; virtualization techniques and applications; and wireless network.

Smart Card Research and Advanced Applications Springer Nature

This book constitutes revised selected papers from the 7th International Workshop on Constructive Side-Channel Analysis and Secure Design, COSADE 2016, held in Graz, Austria, in April 2016. The 12 papers presented in this volume were carefully reviewed and selected from 32 submissions. They were organized in topical sections named: security and physical attacks; side-channel analysis (case studies); fault analysis; and side-channel analysis (tools).

5th International Workshop, Cologne, Germany, September 8-10, 2003, Proceedings Springer

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Research in Attacks, Intrusions, and Defenses Knopf Books for Young Readers

This book constitutes the proceedings of the 14th International Workshop on Cryptographic Hardware and Embedded Systems,

CHES 2012, held in Leuven, Belgium, in September 2012. The 32 papers presented together with 1 invited talk were carefully reviewed and selected from 120 submissions. The papers are organized in the following topical sections: intrusive attacks and countermeasures; masking; improved fault attacks and side channel analysis; leakage resiliency and security analysis; physically unclonable functions; efficient implementations; lightweight cryptography; we still love RSA; and hardware implementations.

Information Security Theory and Practice: Security and Privacy of Mobile Devices in Wireless Communication Springer

The three-volume set constitutes the proceedings of the 16th International Conference on Wireless Algorithms, Systems, and Applications, WASA 2021, which was held during June 25-27, 2021. The conference took place in Nanjing, China.The 103 full and 57 short papers presented in these proceedings were carefully reviewed and selected from 315 submissions. The contributions in Part II of the set are subdivided into the following topical sections: Scheduling & Optimization II; Security; Data Center Networks and Cloud Computing; Privacy-Aware Computing; Internet of Vehicles; Visual Computing for IoT; Mobile Ad-Hoc Networks.

Theory and Practice of Cryptography Solutions for Secure Information Systems Springer Science & Business Media

This book constitutes the thoroughly refereed post-conference proceedings of the 9th International Conference on Information Security and Cryptology, Inscrypt 2013, held in Guangzhou, China, in November 2013. The 21 revised full papers presented together with 4 short papers were carefully reviewed and selected from 93 submissions. The papers cover the topics of Boolean function and block cipher, sequence and stream cipher, applications: systems and theory, computational number theory, public key cryptography, has function, side-channel and leakage, and application and system security.

Selected Areas in Cryptography Springer

This book constitutes the thoroughly refereed post-conference proceedings of the 10th International Workshop on Information Security Applications, WISA 2009, held in Busan, Korea, during August 25-27, 2009. The 27 revised full papers presented were carefully reviewed and selected from a total of 79 submissions. The papers are organized in topical sections on mutlimedia security, device security, HW implementation security, applied cryptography, side channel attacks, cryptograptanalysis, anonymity/authentication/access controll, and network security.

10th International Workshop, WISA 2009, Busan, Korea, August 25-27, 2009, Revised Selected Papers Springer

This book constitutes the refereed proceedings of the Third International Workshop on Constructive Side-Channel Analysis and Secure Design, COSADE 2012, held in Darmstadt, Germany, May 2012. The 16 revised full papers presented together with two invited talks were carefully reviewed and selected from 49 submissions. The papers are organized in topical sections on practical side-channel analysis; secure design; side-channel attacks on RSA; fault attacks; side-channel attacks on ECC; different methods in side-channel analysis.

Future Wireless Networks and Information Systems Springer Science & Business Media

This book constitutes the proceedings of the 20th International Conference on Tools and Algorithms for the Construction and Analysis of Systems, TACAS 2014, which took place in Grenoble, France, in April 2014, as part of the European Joint Conferences on Theory and Practice of Software, ETAPS 2014. The total of 42 papers included in this volume, consisting of 26 research papers, 3 case study papers, 6 regular tool papers and 7 tool demonstrations papers, were carefully reviewed and selected from 161 submissions. In addition the book contains one invited contribution. The papers are organized in topical sections named: decision procedures and their application in analysis; complexity and termination analysis; modeling and model checking discrete systems; timed and hybrid systems; monitoring, fault detection and identification; competition on software verification; specifying and checking linear time properties; synthesis and learning; quantum and probabilistic systems; as well as tool demonstrations and case studies.

Applied Cryptography and Network Security Springer

CHES 2009, the 11th workshop on Cryptographic Hardware and Embedded Systems, was held in Lausanne, Switzerland, September 6–9, 2009. The wo- shop was sponsored by the International Association for Cryptologic Research (IACR). The workshop attracted a record number of 148 submissions from 29 co- tries, of which the Program Committee selected 29 for publication in the wo- shop proceedings, resulting in an acceptance rate of 19.6%, the lowest in the history of CHES. The review process followed strict standards: each paper - ceived at least four reviews, and some asmanyaseightreviews.Membersofthe Program Committee were restricted to co-authoring at most two submissions, and their papers were evaluated by an extended number of reviewers. The ProgramCommittee included 53 members representing 20 countries and ?ve continents. These members were carefully selected to represent academia, industry, and government, as well as to include world-class experts in various research ?elds of interest to CHES. The Program Committee was supported by 148 external reviewers. The total number of people contributing to the - view process, including Program Committee members, external reviewers, and Program Co-chairs, exceeded 200. The papers collected in this volume represent cutting-edge worldwide - search in the rapidly growing and evolving area of cryptographic engineering.

Breaking Embedded Security with Hardware Attacks Trafford Publishing

This book constitutes the refereed proceedings of the Cryptographers' Track at the RSA Conference 2012, CT-RSA 2012, held in San Francisco, CA, USA, in February/March 2012. The 26 revised full papers presented were carefully reviewed and selected from 113 submissions. The papers are organized in topical sections on side channel attacks, digital signatures, public-key encryption, cryptographic protocols, secure implementation methods, symmetric key primitives, and secure multiparty computation.

Constructive Side-Channel Analysis and Secure Design Springer

This volume constitutes the refereed proceedings of the 5th IFIP WG 11.2 International Workshop on Information Security Theory and Practices: Security and Privacy of Mobile Devices in Wireless Communication, WISTP 2011, held in Heraklion, Crete, Greece, in June 2011. The 19 revised full papers and 8 short papers presented together with a keynote speech were carefully reviewed and selected from 80 submissions. They are organized in topical sections on mobile authentication and access control, lightweight authentication, algorithms, hardware implementation, security and cryptography, security attacks and measures, security attacks, security and trust, and mobile application security and privacy.

16th International Conference, WASA 2021, Nanjing, China, June 25–27, 2021, Proceedings, Part II Springer Science & Business Media

This book constitutes the refereed proceedings of the 5th International Conference on Security, Privacy, and Applied

Cryptography Engineering, SPACE 2015, held in Jaipur, India, in October 2015. The 17 full papers presented in this volume were carefully reviewed and selected from 57 submissions. The book also contains 4 invited talks in full-paper length. The papers are devoted to various aspects of security, privacy, applied cryptography, and cryptographic engineering.

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