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Advances in Cryptology - CRYPTO 2005 Advances in Cryptology — CRYPTO ’96 Advances in Cryptology - CRYPTO 2002 Advances in Cryptology - CRYPTO 2004 Advances in Cryptology – CRYPTO 2021 Advances in Cryptology – CRYPTO 2020 Advances in Cryptology - CRYPTO '97 Advances in Cryptology – CRYPTO 2021 Advances in Cryptology - CRYPTO 2002 Advances in Cryptology — CRYPTO ’92 Advances in Cryptology - CRYPTO '89 Advances in Cryptology - CRYPTO 2001 Advances in Cryptology Advances in Cryptology - CRYPTO 2006 Advances in Cryptology – CRYPTO 2020 Advances in Cryptology - CRYPTO '99 Advances in Cryptology – CRYPTO 2016 Advances in Cryptology - CRYPTO 2007 Advances in Cryptology - CRYPTO 2009 Advances in Cryptology – CRYPTO 2020 Advances in Cryptology — CRYPTO ’91 Advances in Cryptology - CRYPTO '86 Advances in Cryptology – CRYPTO 2021 Advances in Cryptology — CRYPTO ’95 Advances in Cryptology -- CRYPTO 2014 Advances in Cryptology – CRYPTO 2019 Advances in Cryptology – CRYPTO 2019 Advances in Cryptology – CRYPTO 2018 Advances in Cryptology - CRYPTO 2000 Advances in Cryptology - CRYPTO '90 Advances in Cryptology – CRYPTO 2013 Advances in Cryptology – CRYPTO 2016 Advances in Cryptology – CRYPTO 2022 Advances in Cryptology – CRYPTO 2013 Advances in Cryptology — CRYPTO ’92 Advances in Cryptology — CRYPTO ’94 Advances in Cryptology - Crypto 2002 Advances in Cryptology - CRYPTO '88 Advances in Cryptology - CRYPTO '87 Advances in Cryptology -- CRYPTO 2003

This book constitutes the refereed proceedings of the 17th Annual International Cryptology Conference, CRYPTO'97, held in Santa Barbara, California, USA, in August 1997 under the sponsorship of the International Association for Cryptologic Research (IACR). The volume presents 35 revised full papers selected from 160 submissions received. Also included are two invited presentations. The papers are organized in sections on complexity theory, cryptographic primitives, lattice-based cryptography, digital signatures, cryptanalysis of public-key cryptosystems, information theory, elliptic curve implementation, number-theoretic systems,

distributed cryptography, hash functions, cryptanalysis of secret-key cryptosystems Crypto'92 took place on August 16-20, 1992. It was the twelfth in the series of annual cryptology conferences held on the beautiful campus of the University of California, Santa Barbara. Once again, it was sponsored by the International Association for Cryptologic Research, in cooperation with the IEEE Computer Society Technical Committee on Security and Privacy. The conference ran smoothly, due to the diligent efforts of the g- eral chair, Spyros Magliveras of the University of Nebraska. One of the measures of the success of this series of conferences is represented by the ever increasing number of papers submitted. Thi year, there were 135 submissions to the c- ference, which represents a new record Following the practice of recent program comm- tees, the papers received anonymous review. The program committee accepted 38 papers for presentation. I addition, there were two invited presentations, one by Miles Smid on the Digital Signature Standard, and one by Mike Fellows on presenting the concepts of cryptology to elementary-age students. These proceedings contains these 40 pape plus 3 papers that were presented at the Rump Session. I would like to thank all of the authors of the submitted papers and all of the speakers who presented papers. would like to express my sincere appreciation to the work of the program committee: Ivan Damgard (Aarhus University, Denmark), Odd Goldreich (Technion, Israel), Burt Kaliski (RSA Data Security, USA), Joe Kilian (NEC, USA). The three-volume set, LNCS 11692, LNCS 11693, and LNCS 11694, constitutes th refereed proceedings of the 39th Annual International Cryptology Conference, CRYPTO 2019, held in Santa Barbara, CA, USA, in August 2019. The 81 revised full papers presented were carefully reviewed and selected from 378 submissions. The papers are organized in the following topical sections: Part I: Award papers; lattice-based ZK; symmetric cryptography; mathematical cryptanalysis; proofs of storage; non-malleable codes; SNARKs and blockchains; homomorphic cryptography; leakage models and key reuse. Part II: MPC communication complexity; symmetric cryptanalysis; (post) quantum cryptography; leakage resilience; memory hard functions and privacy amplification; attribute based encryption; foundations. Part III: Trapdoor functions; zero knowledge I; signatures and messaging; obfuscation; watermarking; secure computation; various topics; zero knowledge II; key exchange and broadcast encryption. Conference on Cryptologic Research, CRYPTO 2020, which was held during August 17–21, 2020. Crypto has traditionally been held at UCSB every year, but due to the COVID-19 pandemic it will be an online event in 2020. The 85 papers presented in the proceedings were carefully reviewed and selected from a total of 371 submissions.

They were organized in topical sections as follows: Part I: Security Models; Symmetric and Real World Cryptography; Hardware Security and Leakage Resilience; Outsourced encryption; Constructions. Part II: Public Key Cryptanalysis; Lattice Algorithms and Cryptanalysis; Lattice-based and Post Quantum Cryptography; Multi-Party Computation. Part III: Multi-Party Computation; Secret Sharing; Cryptanalysis; Delay functions; Zero Knowledge. The three volume-set, LNCS 9814, LNCS 9815, and LNCS 9816, constitutes the refereed proceedings of the 36th Annual International Cryptology Conference, CRYPTO 2016, held in Santa Barbara, CA, USA, in August 2016. The 70 revised full papers presented were carefully reviewed and selected from 274 submissions. The papers are organized in the following topical sections: provable security for symmetric cryptography; asymmetric cryptography and cryptanalysis; cryptography in theory and practice; compromised systems; symmetric cryptanalysis; algorithmic number theory; symmetric primitives; asymmetric cryptography; symmetric cryptography; cryptanalytic tools; hardware-oriented cryptography; secure computation and protocols; obfuscation; quantum techniques; spooky encryption; IBE, ABE, and functional encryption; automated tools and synthesis; zero knowledge; theory. Crypto '90 marked the tenth anniversary of the Crypto conferences held at the University of California at Santa Barbara. The conference was held from August 11 to August 15, 1990 and was sponsored by the International Association for Cryptologic Research, in cooperation with the IEEE Computer Society Technical Committee on Security and Privacy and the Department of Computer Science of the University of California at Santa Barbara. 227 participants from twenty countries around the world. Crypto '90 attracted Roughly 35% of attendees were from academia, 45% from industry and 20% from government. The program was intended to provide a balance between the purely theoretical and the purely practical aspects of cryptography to meet the needs and diversified interests of these various groups. The overall organization of the conference was superbly handled by the general chairperson Sherry McMahan. All of the outstanding features of Crypto, which we have come to expect over the years, were again present and, in addition to all of this, she did a magnificent job in the preparation of the book of abstracts. This is a crucial part of the program and we owe her a great deal of thanks. This book constitutes the refereed proceedings of the 25th Annual International Cryptology Conference, CRYPTO 2005, held in Santa Barbara, California, USA in August 2005. The 33 revised full papers presented were carefully reviewed and selected from 178 submissions. The papers are organized in topical sections on hash functions,

theory, cryptanalysis, zero knowledge, anonymity, privacy, broadcast encryption, human-oriented cryptography, secret sharing, multi-party computation, random oracles, information theoretic security, and primitives and protocols. The 4-volume sets LNCS 13507, 13508, 13509, 13510 constitutes the refereed proceedings of the 42nd Annual International Cryptology Conference, CRYPTO 2022, which was held in Santa Barbara, CA, USA, in August 2022. The total of 100 papers included in the proceedings was reviewed and selected from 455 submissions. The papers were organized in the following topical sections: Cryptanalysis; randomness; quantum cryptography; advanced encryption systems; secure messaging; lattice-based zero knowledge; lattice-based signatures; blockchain; coding theory; public key cryptography; signatures, idealized models; lower bounds; secure hash functions; post-quantum cryptography; symmetric cryptanalysis; secret sharing and secure multiparty computation; unique topics; symmetric key theory; zero knowledge; and threshold signatures. The four-volume set, LNCS 12825, LNCS 12826, LNCS 12827, and LNCS 12828, constitutes the refereed proceedings of the 41st Annual International Cryptology Conference, CRYPTO 2021. Crypto has traditionally been held at UCSB every year, but due to the COVID-19 pandemic it was an online event in 2021. The 103 full papers presented in the proceedings were carefully reviewed and selected from a total of 426 submissions. The papers are organized in the following topical sections: Part I: Award Papers; Signatures; Quantum Cryptography; Succinct Arguments. Part II: Multi-Party Computation; Lattice Cryptography; and Lattice Cryptanalysis. Part III: Models; Applied Cryptography and Side Channels; Cryptanalysis; Codes and Extractors; Secret Sharing. Part IV: Zero Knowledge; Encryption++; Foundations; Low-Complexity Cryptography; Protocols. The three-volume set, LNCS 11692, LNCS 11693, and LNCS 11694, constitutes the refereed proceedings of the 39th Annual International Cryptology Conference, CRYPTO 2019, held in Santa Barbara, CA, USA, in August 2019. The 81 revised full papers presented were carefully reviewed and selected from 378 submissions. The papers are organized in the following topical sections: Part I: Award papers; lattice-based ZK; symmetric cryptography; mathematical cryptanalysis; proofs of storage; non-malleable codes; SNARKs and blockchains; homomorphic cryptography; leakage models and key reuse. Part II: MPC communication complexity; symmetric cryptanalysis; (post) quantum cryptography; leakage resilience; memory hard functions and privacy amplification; attribute based encryption; foundations. Part III: Trapdoor functions; zero knowledge I; signatures and messaging; obfuscation; watermarking; secure computation; various topics; zero knowledge II; key

exchange and broadcast encryption. 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. Conference on Cryptologic Research, CRYPTO 2020, which was held during August 17–21, 2020. Crypto has traditionally been held at UCSB every year, but due to the COVID-19 pandemic it will be an online event in 2020. The 85 papers presented in the proceedings were carefully reviewed and selected from a total of 371 submissions. They were organized in topical sections as follows: Part I: Security Models; Symmetric and Real World Cryptography; Hardware Security and Leakage Resilience; Outsourced encryption; Constructions. Part II: Public Key Cryptanalysis; Lattice Algorithms and Cryptanalysis; Lattice-based and Post Quantum Cryptography; Multi-Party Computation. Part III: Multi-Party Computation; Secret Sharing; Cryptanalysis; Delay functions; Zero Knowledge. The three volume-set, LNCS 9814, LNCS 9815, and LNCS 9816, constitutes the refereed proceedings of the 36th Annual International Cryptology Conference, CRYPTO 2016, held in Santa Barbara, CA, USA, in August 2016. The 70 revised full papers presented were carefully reviewed and selected from 274 submissions. The papers are organized in the following topical sections: provable security for symmetric cryptography; asymmetric cryptography and cryptanalysis; cryptography in theory and practice; compromised systems; symmetric cryptanalysis; algorithmic number theory; symmetric primitives; asymmetric cryptography; symmetric cryptography; cryptanalytic tools; hardware-oriented cryptography; secure computation and protocols; obfuscation; quantum techniques; spooky encryption; IBE, ABE, and functional encryption; automated tools and synthesis; zero knowledge; theory. 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. Crypto 2001, the 21st Annual Crypto conference, was sponsored by the Int- national Association for Cryptologic Research (IACR) in cooperation with the IEEE

Computer Society Technical Committee on Security and Privacy and the Computer Science Department of the University of California at Santa Barbara. The conference received 156 submissions, of which the program committee selected 34 for presentation; one was later withdrawn. These proceedings contain the revised versions of the 33 submissions that were presented at the conference. These revisions have not been checked for correctness, and the authors bear full responsibility for the contents of their papers. The conference program included two invited lectures. Mark Sherwin spoke on, \Quantum information processing in semiconductors: an experimentalist's view." Daniel Weitzner spoke on, \Privacy, Authentication & Identity: A recent history of cryptographic struggles for freedom." The conference program also included its perennial \rump session," chaired by Stuart Haber, featuring short, informal talks on late{breaking research news. As I try to account for the hours of my life that ?ew o to oblivion, I realize that most of my time was spent cajoling talented innocents into spending even more time on my behalf. I have accumulated more debts than I can ever hope to repay. As mere statements of thanks are certainly insu cient, consider the rest of this preface my version of Chapter 11. This book constitutes the refereed proceedings of the 24th Annual International Cryptology Conference, CRYPTO 2004, held in Santa Barbara, California, USA in August 2004. The 33 revised full papers presented together with one invited paper were carefully reviewed and selected from 211 submissions. The papers are organized in topical sections in linear cryptanalysis, group signatures, foundations, efficient representations, public key cryptanalysis, zero-knowledge, hash collision, secure computation, stream cipher cryptanalysis, public key encryption, bounded storage model, key management, and computationally unbounded adversaries. The two volume-set, LNCS 8042 and LNCS 8043, constitutes the refereed proceedings of the 33rd Annual International Cryptology Conference, CRYPTO 2013, held in Santa Barbara, CA, USA, in August 2013. The 61 revised full papers presented in LNCS 8042 and LNCS 8043 were carefully reviewed and selected from numerous submissions. Two abstracts of the invited talks are also included in the proceedings. The papers are organized in topical sections on lattices and FHE; foundations of hardness; cryptanalysis; MPC - new directions; leakage resilience; symmetric encryption and PRFs; key exchange; multi linear maps; ideal ciphers; implementation-oriented protocols; number-theoretic hardness; MPC - foundations; codes and secret sharing; signatures and authentication; quantum security; new primitives; and functional encryption. The papers in this volume were presented at the CRYPTO '88 conference on theory and applications of cryptography, held in Santa Barbara,

California, August 21-25, 1988. The papers were chosen for their perceived originality and often represent preliminary reports on continuing research. The main sections deal with the following topics: Zero-Knowledge, Number Theory, Pseudorandomness, Signatures, Complexity, Protocols, Security, Cryptoanalysis. As such, they will give the committed reader a unique insight into the very latest developments in the field. The Crypto ’95 conference was sponsored by the International Association for Cryptologic Research (IACR), in cooperation with the IEEE Computer - ciety Technical Committee on Security and Privacy, and the Computer Science Department of the University of California, Santa Barbara. It took place at the University of California, Santa Barbara, from August 27-31, 1995. This was the fifteenth annual Crypto conference; all have been held at UCSB For the second time, proceedings were available at the conference. The General Chair, Stafford Tavares, was responsible for local organization and registration. The Program Committee considered 151 papers and selected 36 for pres- tation. There were also two invited talks. Robert Morris, Sr. gave a talk on “Ways of Losing Information,” which included some non-cryptographic means of leaking secrets that are often overlooked by cryptographers. The second talk, “Cryptography - Myths and Realities,” was given by Adi Shamir, this year’s IACR Distinguished Lecturer. Shamir is the second person to receive this honor, the first having been Gus Simmons at Crypto ’94. These proceedings contain revised versions of the 36 contributed talks. Each paper was sent to at least three members of the program committee for c- ments. Revisions were not checked on their scientific aspects. Some authors will write final versions of their papers for publication in refereed journals. Of course, the authors bear full responsibility for the contents of their papers. The CRYPTO ’94 conference is sponsored by the International Association for Cryptologic Research (IACR), in co-operation with the IEEE Computer Society Technical Committee on Security and Privacy. It has taken place at the Univ- sity of California, Santa Barbara, from August 21-25,1994. This is the fourteenth annual CRYPTO conference, all of which have been held at UCSB. This is the first time that proceedings are available at the conference. The General Chair, Jimmy R. Upton has been responsible for local organization, registration, etc. There were 114 submitted papers which were considered by the Program Committee. Of these, 1 was withdrawn and 38 were selected for the proce- ings. There are also 3 invited talks. Two of these are on aspects of cryptog- phy in the commercial world. The one on hardware aspects will be presented by David Maher (AT&T), the one on software aspects by Joseph Pato (Hewlett-Packard). There will also be a panel discussion on “Securing an Electronic World:

Are We Ready?” The panel members will be: Ross Anderson, Bob Blakley, Matt Blaze, George Davida, Yvo Desmedt (moderator), Whitfield Diffie, Joan Feigbaum, Blake Greenlee, Martin Hellman, David Maher, Miles Smid. The topic of the panel will be introduced by the invited talk of Whitfield Diffie on ”Securing the Information Highway. ” These proceedings contain revised versions of the 38 contributed talks. Each i paper was sent to at least 3 members of the program committee for comments. Crypto 2002, the 22nd Annual Crypto Conference, was sponsored by IACR, the International Association for Cryptologic Research, in cooperation with the IEEE Computer Society Technical Committee on Security and Privacy and the Computer Science Department of the University of California at Santa Barbara. It is published as Vol. 2442 of the Lecture Notes in Computer Science (LNCS) of Springer Verlag. Note that 2002, 22 and 2442 are all palindromes... (Don’t nod!)
Theconferencereceived175submissions,ofwhich40wereaccepted;twosmissionsweremergedintoasinglepaper,yieldingthetotalof39papersaccepted for presentation in the technical program of the conference. In this proceedings volume you will ?nd the revised versions of the 39 papers that were presented at the conference. The submissions represent the current state of work in the cryptographic community worldwide, covering all areas of cryptologic research. In fact, many high-quality works (that surely will be published elsewhere) could not be accepted. This is due to the competitive nature of the conference and the challenging task of selecting a program. I wish to thank the authors of all submitted papers. Indeed, it is the authors of all papers who have made this conference possible, regardless of whether or not their papers were accepted. The conference program was also immensely bene?ted by two plenary talks. This book is the proceedings of CRYPTO 86, one in a series of annual conferences devoted to cryptologic research. They have all been held at the University of California at Santa Barbara. The first conference in this series, CRYPTO 81, organized by A. Gersho, did not have a formal proceedings. The proceedings of the following four conferences in this series have been published as: Advances in Cryptology: Proceedings of Crypto 82, D. Chaum, R. L. Rivest, and A. T. Sherman, eds., Plenum, 1983. Advances in Cryptology: Proceedings of Crypto 83, D. Chaum, ed., Plenum, 1984. Advances in Cryptology: Proceedings of CRYPTO 84, G. R. Blakley and D. Chaum, eds., Lecture Notes in Computer Science #196, Springer, 1985. Advances in Cryptology - CRYPTO '85 Proceedings, H. C. Williams, ed., Lecture Notes in Computer Science #218, Springer, 1986. A parallel series of conferences is held annually in Europe. The first of these had its proceedings published as

Cryptography: Proceedings, Burg Feuerstein 1982, T. Beth, ed., Lecture Notes in Computer Science #149, Springer, 1983. 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. This book constitutes the refereed proceedings of the 20th Annual International Cryptology Conference, CRYPTO 2000, held in Santa Barbara, CA, USA in August 2000. The 32 revised full papers presented together with one invited contribution were carefully reviewed and selected from 120 submissions. The papers are organized in topical sections on XTR and NTRU, privacy for databases, secure distributed computation, algebraic cryptosystems, message authentication, digital signatures, cryptanalysis, traitor tracing and broadcast encryption, symmetric encryption, to commit or not to commit, protocols, and stream ciphers and Boolean functions. Crypto'92 took place on August 16-20, 1992. It was the twelfth in the series of annual cryptology conferences held on the beautiful campus of the University of California, Santa Barbara. Once again, it was sponsored by the International Association for Cryptologic Research, in cooperation with the IEEE Computer Society Technical Committee on Security and Privacy. The conference ran smoothly, due to the diligent efforts of the g- eral chair, Spyros Magliveras of the University of Nebraska. One of the measures of the success of this series of conferences is represented by the ever increasing number of papers submitted. This year, there were 135 submissions to the c- ference, which represents a new record. Following the practice of recent program comm- tees, the papers received anonymous review The program committee accepted 38 papers for presentation. In addition, there were two invited presentations, one by Miles Smid on the Digital Signature Standard, and one by Mike Fellows on presenting the concepts of cryptology to elementary-age students. These proceedings contains these 40 papers plus 3 pape that were presented at the Rump Session. I would like to thank all of the authors of the submitted papers and all of the speakers who presented papers. I would like to

express my sincere appreciation to the work of the program committee: Ivan Damgard (Aarhus University, Denmark), Odd Goldreich (Technion, Israel), Burt Kaliski (RSA Data Security, USA), Joe Kilian (NEC, USA). The four-volume set, LNCS 12825, LNCS 12826, LNCS 12827, and LNCS 12828, constitutes the refereed proceedings of the 41st Annual International Cryptology Conference, CRYPTO 2021. Crypto has traditionally been held at UCSB every year, but due to the COVID-19 pandemic it was an online event in 2021. The 103 full papers presented in the proceedings were carefully reviewed and selected from a total of 426 submissions. The papers are organized in the following topical sections: Part I: Award Papers; Signatures; Quantum Cryptography; Succinct Arguments. Part II: Multi-Party Computation; Lattice Cryptography; and Lattice Cryptanalysis. Part III: Models; Applied Cryptography and Side Channels; Cryptanalysis; Codes and Extractors; Secret Sharing. Part IV: Zero Knowledge; Encryption++; Foundations; Low-Complexity Cryptography; Protocols. Crypto ’99, the Nineteenth Annual Crypto Conference, was sponsored by the International Association for Cryptologic Research (IACR), in cooperation with the IEEE Computer Society Technical Committee on Security and Privacy and the Computer Science Department, University of California, Santa Barbara (UCSB). The General Chair, Donald Beaver, was responsible for local organization and registration. The Program Committee considered 167 papers and selected 38 for presentation. This year’s conference program also included two invited lectures. I was pleased to include in the program UeliM aurer’s presentation “Information Theoretic Cryptography” and Martin Hellman’s presentation “The Evolution of Public Key Cryptography.” The program also incorporated the traditional Rump Session for informal short presentations of new results, run by Stuart Haber. These proceedings include the revised versions of the 38 papers accepted by the Program Committee. These papers were selected from all the submissions to the conference based on originality, quality, and relevance to the field of cryptology. Revisions were not checked, and the authors bear full responsibility for the contents of their papers. An international community of researchers is now flourishing in the area of cryptology-there was none half-a-dozen years ago. The intrinsic fascination of the field certainly is part of the explanation. Another factor may be that many sense the importance and potential consequences of this work, as we move into the information age. I believe that the various meetings devoted to cryptology over the past few years have contributed quite significantly to the formation of this community, by allowing those in the field to get to know each other and by providing for rapid exchange of ideas. CRYPTO 83 was once again truly the

cryptologic event of the year. Many of the most active participants continue to attend each year, and attendance continues to grow at a healthy rate. The informal and collegial atmosphere and the beach side setting which contribute to the popularity of the event were again supported by flawless weather. The absence of parallel sessions seemed to provide a welcome opportunity to keep abreast of developments in the various areas of activity. Each session of the meeting organized by the program committee is repre sented by a section in the present volume. The papers were accepted by the program committee based on abstracts, and appear here without having been otherwise refereed. The last section contains papers presented at the informal rump session. A keyword index and an author index to the papers is provided at the end of the volume. Crypto '91 was the eleventh in a series of workshops on cryptology sponsoredby the International Association for Cryptologic Research and was held in Santa Barbara, California, in August 1991. This volume contains a full paper or an extended abstract for each of the 39 talks presented at the workshop. All theoretical and practical aspects of cryptology are represented, including: protocol design and analysis, combinatorics and authentication, secret sharing and information theory, cryptanalysis, complexity theory, cryptographic schemas based on number theory, pseudorandomness, applications and implementations, viruses, public-key cryptosystems, and digital signatures. CRYPTO is a conference devoted to all aspects of cryptologic research. It is held each year at the University of California at Santa Barbara. Annual meetings on this topic also take place in Europe and are regularly published in this Lecture Notes series under the name of EUROCRYPT. This volume presents the proceedings of the ninth CRYPTO meeting. The papers are organized into sections with the following themes: Why is cryptography harder than it looks?, pseudo-randomness and sequences, cryptanalysis and implementation, signature and authentication, threshold schemes and key management, key distribution and network security, fast computation, odds and ends, zero-knowledge and oblivious transfer, multiparty computation. Crypto 2002, the 22nd Annual Crypto Conference, was sponsored by IACR, the International Association for Cryptologic Research, in cooperation with the IEEE Computer Society Technical Committee on Security and Privacy and the Computer Science Department of the University of California at Santa Barbara. It is published as Vol. 2442 of the Lecture Notes in Computer Science (LNCS) of Springer Verlag. Note that 2002, 22 and 2442 are all palindromes... (Don’t nod!) Theconferencereceived175submissions,ofwhich40wereaccepted;twos-missionsweremergedintoasinglepaper,yieldingthetotalof39papersaccepted for

presentation in the technical program of the conference. In this proceedings volume you will ?nd the revised versions of the 39 papers that were presented at the conference. The submissions represent the current state of work in the cryptographic community worldwide, covering all areas of cryptologic research. In fact, many high-quality works (that surely will be published elsewhere) could not be accepted. This is due to the competitive nature of the conference and the challenging task of selecting a program. I wish to thank the authors of all submitted papers. Indeed, it is the authors of all papers who have made this conference possible, regardless of whether or not their papers were accepted. The conference program was also immensely bene?ted by two plenary talks. Zero-knowledge interactive proofsystems are a new technique which can be used as a cryptographic tool for designing provably secure protocols. Goldwasser, Micali, and Rackoff originally suggested this technique for controlling the knowledge released in an interactive proof of membership in a language, and for classification of languages [19]. In this approach, knowledge is defined in terms of complexity to convey knowledge if it gives a computational advantage to the receiver, theory, and a message is said for example by giving him the result of an intractable computation. The formal model of interacting machines is described in [19, 15, 171. A proof-system (for a language L) is an interactive protocol by which one user, the prover, attempts to convince another user, the verifier, that a given input x is in L. We assume that the verifier is a probabilistic machine which is limited to expected polynomial-time computation, while the prover is an unlimited probabilistic machine. (In cryptographic applications the prover has some trapdoor information, or knows the cleartext of a publicly known ciphertext) A correct proof-system must have the following properties: If XE L, the prover will convince the verifier to accept the pmf with very high probability. If XP L no prover, no matter what program it follows, is able to convince the verifier to accept the proof, except with vanishingly small probability. Conference on Cryptologic Research, CRYPTO 2020, which was held during August 17–21, 2020. Crypto has traditionally been held at UCSB every year, but due to the COVID-19 pandemic it will be an online event in 2020. The 85 papers presented in the proceedings were carefully reviewed and selected from a total of 371 submissions. They were organized in topical sections as follows: Part I: Security Models; Symmetric and Real World Cryptography; Hardware Security and Leakage Resilience; Outsourced encryption; Constructions. Part II: Public Key Cryptanalysis; Lattice Algorithms and Cryptanalysis; Lattice-based and Post Quantum Cryptography; Multi-Party Computation. Part III: Multi-Party Computation; Secret Sharing; Cryptanalysis;

Delay functions; Zero Knowledge. The two volume-set, LNCS 8616 and LNCS 8617, constitutes the refereed proceedings of the 34th Annual International Cryptology Conference, CRYPTO 2014, held in Santa Barbara, CA, USA, in August 2014. The 60 revised full papers presented in LNCS 8616 and LNCS 8617 were carefully reviewed and selected from 227 submissions. The papers are organized in topical sections on symmetric encryption and PRFs; formal methods; hash functions; groups and maps; lattices; asymmetric encryption and signatures; side channels and leakage resilience; obfuscation; FHE; quantum cryptography; foundations of hardness; number-theoretic hardness; information-theoretic security; key exchange and secure communication; zero knowledge; composable security; secure computation - foundations; secure computation - implementations. 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. The three volume-set, LNCS 10991 LNCS 10992, and LNCS 10993, constitutes the refereed proceedings of the 38th Annual International Cryptology Conference, CRYPTO 2018, held in Santa Barbara, CA, USA, in August 2018. The 79 revised full papers presented were carefully reviewed and selected from 351 submissions. The papers are organized in the following topical sections: secure messaging; implementations and physical attacks prevention; authenticated and format-preserving encryption; cryptoanalysis; searchable encryption and differential privacy; secret sharing; encryption; symmetric cryptography; proofs of work and proofs of stake; proof tools; key exchange; symmetric cryptoanalysis; hashes and random oracles; trapdoor functions; round optimal MPC; foundations; lattices; lattice-based ZK; efficient MPC; quantum cryptography; MPC; garbling; information-theoretic MPC; oblivious transfer; non-malleable codes; zero knowledge; and obfuscation. The four-volume set, LNCS 12825, LNCS 12826, LNCS 12827, and LNCS 12828, constitutes the refereed proceedings of the 41st Annual International Cryptology Conference, CRYPTO 2021. Crypto has traditionally been held at UCSB every year, but due to the COVID-19 pandemic it was an online event in 2021. The 103 full papers presented in the proceedings were carefully reviewed and selected from a total of 426 submissions. The papers are organized in the following topical sections: Part I: Award Papers; Signatures; Quantum Cryptography; Succinct Arguments. Part II: Multi-Party Computation; Lattice Cryptography; and Lattice Cryptanalysis. Part III: Models; Applied Cryptography and Side Channels; Cryptanalysis; Codes and Extractors; Secret Sharing. Part IV: Zero Knowledge;

Encryption++; Foundations; Low-Complexity Cryptography; Protocols. The two volume-set, LNCS 8042 and LNCS 8043, constitutes the refereed proceedings of th 33rd Annual International Cryptology Conference, CRYPTO 2013, held in Santa Barbara, CA, USA, in August 2013. The 61 revised full papers presented in LNCS 8042 and LNCS 8043 were carefully reviewed and selected from numerous submissions. Two abstracts of the invited talks are also included in the proceedings. The papers are organized in topical sections on lattices and FHE; foundations of hardness; cryptanalysis; MPC - new directions; leakage resilience; symmetric encryption and PRFs; key exchange; multi linear maps; ideal ciphers; implementation-oriented protocols; number-theoretic hardness; MPC - foundations; codes and secret sharing; signatures and authentication; quantum security; new primitives; and functional encryption. Crypto '96, the Sixteenth Annual Crypto Conference, is sponsored by the International Association for Cryptologic Research (IACR), in cooperation with the IEEE Computer Society Technical Committee on Security and P- vacy and the Computer Science Department of the University of California at Santa Barbara (UCSB). It takes place at UCSB from August 18 to 22, 1996. The General Chair, Richard Graveman, is responsible for local organization and registration. The scientific program was organized by the 16-member Program C- mittee. We considered 115 papers. (An additional 15 submissions had to be summarily rejected because of lateness or major noncompliance with the c- ditions in the Call for Papers.) Of these, 30 were accepted for presentation. In addition, there will be five invited talks by Ernest Brickell. Andrew Clark, Whitfield Diffie, Ronald Rivest, and Cliff Stoll. A Rump Session will be chaired by Stuart Haber. These proceedings contain the revised versions of the 30 contributed talks. least three com- The submitted version of each paper was examined by at mittee members and/or outside experts, and their comments were taken into account in the revisions. However, the authors (and not the committee) bear full responsibility for the content of their papers.

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