

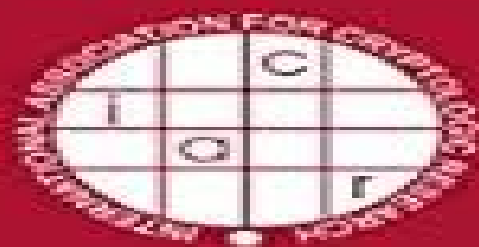
Tetsu Iwata · Jung Hee Cheon (Eds.)

LNCS 9452

# Advances in Cryptology – ASIACRYPT 2015

21st International Conference on the Theory  
and Application of Cryptology and Information Security  
Auckland, New Zealand, November 29 – December 3, 2015  
Proceedings, Part I

**I** Part I



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Advances in Cryptology -- ASIACRYPT 2015 Tetsu Iwata, Jung Hee Cheon, 2015-11-26 The two volume set LNCS 9452 and 9453 constitutes the refereed proceedings of the 21st International Conference on the Theory and Applications of Cryptology and Information Security ASIACRYPT 2015 held in Auckland New Zealand in November December 2015 The 64 revised full papers and 3 invited talks presented were carefully selected from 251 submissions They are organized in topical sections on indistinguishability obfuscation PRFs and hashes discrete logarithms and number theory signatures multiparty computation public key encryption ABE and IBE zero knowledge attacks on ASASA number field sieve hashes and MACs symmetric encryption foundations side channel attacks design of block ciphers authenticated encryption symmetric analysis cryptanalysis privacy and lattices

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 - ASIACRYPT 2019 Steven D. Galbraith, Shiho Moriai, 2019-11-25 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

Advances in Cryptology - ASIACRYPT 2022 Shweta Agrawal, Dongdai Lin, 2023-01-24 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

cryptanalysis and quantum cryptography      **Advances in Cryptology - ASIACRYPT 2020** Shiho Moriai, Huaxiong Wang, 2020-12-05 The three volume proceedings LNCS 12491 12492 and 12493 constitutes the proceedings of the 26th International Conference on the Theory and Application of Cryptology and Information Security ASIACRYPT 2020 which was held during December 7 11 2020 The conference was planned to take place in Daejeon South Korea but changed to an online format due to the COVID 19 pandemic The total of 85 full papers presented in these proceedings was carefully reviewed and selected from 316 submissions The papers were organized in topical sections as follows Part I Best paper awards encryption schemes post quantum cryptography cryptanalysis symmetric key cryptography message authentication codes side channel analysis Part II public key cryptography lattice based cryptography isogeny based cryptography quantum algorithms authenticated key exchange Part III multi party computation secret sharing attribute based encryption updatable encryption zero knowledge blockchains and contact tracing      *Advances in Cryptology - EUROCRYPT 2016* Marc Fischlin, Jean-Sébastien Coron, 2016-04-27 The two volume proceedings LNCS 9665 LNCS 9666 constitutes the thoroughly refereed proceedings of the 35th Annual International Conference on the Theory and Applications of Cryptographic Techniques EUROCRYPT 2016 held in Vienna Austria in May 2016 The 62 full papers included in these volumes were carefully reviewed and selected from 274 submissions The papers are organized in topical sections named pseudo randomness LPN LWE cryptanalysis masking fully homomorphic encryption number theory hash functions multilinear maps message authentication codes attacks on SSL TLS real world protocols robust designs lattice reduction latticed based schemes zero knowledge pseudorandom functions multi party computation separations protocols round complexity commitments lattices leakage in differentiability obfuscation and automated analysis functional encryption and non malleable codes      *Advances in Cryptology - ASIACRYPT 2021* Mehdi Tibouchi, Huaxiong Wang, 2021-11-30 The four volume proceedings LNCS 13090 13091 13092 and 13093 constitutes the proceedings of the 27th International Conference on the Theory and Application of Cryptology and Information Security ASIACRYPT 2021 which was held during December 6 10 2021 The conference was planned to take place in Singapore but changed to an online format due to the COVID 19 pandemic The total of 95 full papers presented in these proceedings was carefully reviewed and selected from 341 submissions The papers were organized in topical sections as follows Part I Best paper awards public key cryptanalysis symmetric key cryptanalysis quantum security Part II physical attacks leakage and countermeasures multiparty computation enhanced public key encryption and time lock puzzles real world protocols Part III NIZK and SNARKs theory symmetric key constructions homomorphic encryption and encrypted search Part IV Lattice cryptanalysis post quantum cryptography advanced encryption and signatures zero knowledge proofs threshold and multi signatures authenticated key exchange      **Advances in Cryptology - ASIACRYPT 2018** Thomas Peyrin, Steven Galbraith, 2018-11-22 The three volume set of LNCS 11272 11273 and 11274 constitutes the refereed proceedings of the 24th International Conference on the Theory and Application of

Cryptology and Information Security ASIACRYPT 2018 held in Brisbane Australia in December 2018 The 65 revised full papers were carefully selected from 234 submissions They are organized in topical sections on Post Quantum Cryptanalysis Encrypted Storage Symmetric Key Constructions Lattice Cryptography Quantum Symmetric Cryptanalysis Zero Knowledge Public Key and Identity Based Encryption Side Channels Signatures Leakage Resilient Cryptography Functional Inner Product Predicate Encryption Multi party Computation ORQM Real World Protocols Secret Sharing Isogeny Cryptography and Foundations

**Advances in Cryptology - CRYPTO 2016** Matthew Robshaw,Jonathan Katz,2016-07-25 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

**Advances in Cryptology - EUROCRYPT 2020** Anne Canteaut,Yuval Ishai,2020-05-01 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

**Advances in Cryptology - EUROCRYPT 2025** Serge Fehr,Pierre-Alain Fouque,2025-05-29 This eight volume set LNCS 15601 15608 constitutes the proceedings of the 44th Annual International Conference on the Theory and Applications of Cryptographic Techniques EUROCRYPT 2025 held in Madrid Spain during May 4 8 2025 The 123 papers included in these proceedings were carefully reviewed and selected from 602 submissions They are organized in topical sections as follows Part I Secure Multiparty Computation I Part II Public Key Cryptography and Key Exchange Part III Advanced Cryptographic Schemes Part IV Non Interactive Proofs and Zero Knowledge Part V Secure Multiparty Computation II Part VI MPC II Private Information Retrieval and Garbling Algorithms and Attacks Part VII Theoretical Foundations Part VIII Real World Cryptography

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**EUROCRYPT 2024** Marc Joye, Gregor Leander, 2024-04-28 The 7 volume set LNCS 14651 14657 conference volume constitutes the proceedings of the 43rd Annual International Conference on the Theory and Applications of Cryptographic Techniques EUROCRYPT 2024 held in Zurich Switzerland in May 2024 The 105 papers included in these proceedings were carefully reviewed and selected from 500 submissions They were organized in topical sections as follows Part I Awarded papers symmetric cryptology public key primitives with advanced functionalities Part II Public key primitives with advances functionalities Part III AI and blockchain secure and efficient implementation cryptographic engineering and real world cryptography theoretical foundations Part IV Theoretical foundations Part V Multi party computation and zero knowledge Part VI Multi party computation and zero knowledge classic public key cryptography Part VII Classic public key cryptography

**Advances in Cryptology - CRYPTO 2023** Helena Handschuh, Anna Lysyanskaya, 2023-08-08 The five volume set LNCS 14081 140825 14083 14084 and 14085 constitutes the refereed proceedings of the 43rd Annual International Cryptology Conference CRYPTO 2023 The conference took place at Santa Barbara USA during August 19 24 2023 The 124 full papers presented in the proceedings were carefully reviewed and selected from a total of 479 submissions The papers are organized in the following topical sections Part I Consensus secret sharing and multi party computation Part II Succinctness anonymous credentials new paradigms and foundations Part III Cryptanalysis side channels symmetric constructions isogenies Part IV Faster fully homomorphic encryption oblivious RAM obfuscation secure messaging functional encryption correlated pseudorandomness proof systems in the discrete logarithm setting

**Advances in Cryptology - CRYPTO 2020** Daniele Micciancio, Thomas Ristenpart, 2020-08-12 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

**Public-Key Cryptography - PKC 2021** Juan A. Garay, 2021-04-30 The two volume proceedings set LNCS 12710 and 12711 constitutes the proceedings of the 24th IACR International Conference on Practice and Theory of Public Key Cryptography PKC 2021 which was held online during May 10 13 2021 The conference was originally planned to take place in Edinburgh UK but had to change to an online format due to the COVID 19 pandemic The 52 papers included in these proceedings were carefully reviewed and selected from 156 submissions They focus on all aspects of public key cryptography covering theory implementations and applications This year post quantum cryptography PQC constructions and cryptanalysis received special attention

**Advances in Cryptology - CRYPTO 2022** Yevgeniy Dodis, Thomas Shrimpton, 2022-10-11 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      **Roadmapping Future** Tuğrul U. Daim, 2021-03-16 This volume presents a portfolio of cases and applications on technology roadmapping TRM for products and services It provides a brief overview on criteria or metrics used for evaluating the success level of TRM and then offers six case examples from sectors such as transportation smart technologies and household electronics A new innovation in this book is a section of detailed technology roadmap samples that technology managers can apply to emerging technologies

**Algorithmic Combinatorics: Enumerative Combinatorics, Special Functions and Computer Algebra** Veronika Pillwein, Carsten Schneider, 2020-09-28 The book is centered around the research areas of combinatorics special functions and computer algebra What these research fields share is that many of their outstanding results do not only have applications in Mathematics but also other disciplines such as computer science physics chemistry etc A particular charm of these areas is how they interact and influence one another For instance combinatorial or special functions techniques have motivated the development of new symbolic algorithms In particular first proofs of challenging problems in combinatorics and special functions were derived by making essential use of computer algebra This book addresses these interdisciplinary aspects Algorithmic aspects are emphasized and the corresponding software packages for concrete problem solving are introduced Readers will range from graduate students researchers to practitioners who are interested in solving concrete problems within mathematics and other research disciplines      *Advances in Cryptology - ASIACRYPT 2023* Jian Guo, Ron Steinfeld, 2023-12-17 The eight volume set LNCS 14438 until 14445 constitutes the proceedings of the 29th International Conference on the Theory and Application of Cryptology and Information Security ASIACRYPT 2023 held in Guangzhou China during December 4 8 2023 The total of 106 full papers presented in these proceedings was carefully reviewed and selected from 375 submissions The papers were organized in topical sections as follows Part I Secure Multi party computation threshold cryptography Part II proof systems succinctness and foundations anonymity Part III quantum cryptanalysis symmetric key cryptanalysis Part IV cryptanalysis of post quantum and public key systems side channels quantum random oracle model Part V functional encryption commitments and proofs secure messaging and broadcast Part VI homomorphic encryption encryption with special functionalities security proofs and security models Part VII post quantum cryptography Part VIII quantum cryptography key exchange symmetric key design      **Advances in Cryptology - ASIACRYPT 2023** Jian

Guo,Ron Steinfeld,2023-12-17 The eight volume set LNCS 14438 until 14445 constitutes the proceedings of the 29th International Conference on the Theory and Application of Cryptology and Information Security ASIACRYPT 2023 held in Guangzhou China during December 4 8 2023 The total of 106 full papers presented in these proceedings was carefully reviewed and selected from 375 submissions The papers were organized in topical sections as follows Part I Secure Multi party computation threshold cryptography Part II proof systems succinctness and foundations anonymity Part III quantum cryptanalysis symmetric key cryptanalysis Part IV cryptanalysis of post quantum and public key systems side channels quantum random oracle model Part V functional encryption commitments and proofs secure messaging and broadcast Part VI homomorphic encryption encryption with special functionalities security proofs and security models Part VII post quantum cryptography Part VIII quantum cryptography key exchange symmetric key design



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