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# Selected Areas in Cryptography

27th International Conference  
Halifax, NS, Canada (Virtual Event), October 21–23, 2020  
Revised Selected Papers

# Selected Areas In Cryptography

**Antoine Joux, Amr Youssef**



## **Selected Areas In Cryptography:**

Selected Areas in Cryptography -- SAC 2014 Antoine Joux, Amr Youssef, 2014-12-04 This book constitutes the proceedings of the 21st International Conference on Selected Areas in Cryptography SAC 2014 held in Montreal QC Canada in August 2014. The 22 papers presented in this volume were carefully reviewed and selected from 103 submissions. There are four areas covered at each SAC conference. The three permanent areas are design and analysis of symmetric key primitives and cryptosystems including block and stream ciphers, hash functions, MAC algorithms, cryptographic permutations, and authenticated encryption schemes; efficient implementations of symmetric and public key algorithms; mathematical and algorithmic aspects of applied cryptology. This year the fourth area for SAC 2014 is algorithms for cryptography, cryptanalysis, and their complexity analysis.

Selected Areas in Cryptography Helena Handschuh, 2005-01-31 This book constitutes the thoroughly refereed post-proceedings of the 11th International Workshop on Selected Areas in Cryptography SAC 2004 held in Waterloo Canada in August 2004. The 24 revised full papers presented were carefully selected during two rounds of reviewing and improvement. The papers are organized in topical sections on stream cipher analysis, side channel analysis, block cipher design, efficient implementations, secret key cryptography, cryptanalysis, and cryptographic protocols.

**Selected Areas in Cryptography** Riham AlTawy, Andreas Hülsing, 2022-03-26 This book contains revised selected papers from the 28th International Conference on Selected Areas in Cryptography SAC 2021 held as a virtual event in September and October 2021. The 23 full papers presented in this volume were carefully reviewed and selected from 60 submissions. They cover the following research areas: design and analysis of symmetric key primitives and cryptosystems including block and stream ciphers, hash functions, MAC algorithms, and authenticated encryption schemes; efficient implementations of symmetric and public key algorithms; mathematical and algorithmic aspects of applied cryptology; and secure elections and related cryptographic constructions. The conference was originally planned to take place at the University of Victoria BC Canada. Due to the COVID-19 pandemic, it was held virtually.

**Selected Areas in Cryptography** Bart Preneel, 2006-03-23 This book constitutes the thoroughly refereed post-proceedings of the 12th International Workshop on Selected Areas in Cryptography SAC 2005 held in Canada in August 2005. The 25 revised full papers presented were carefully reviewed and selected from 96 submissions for inclusion in the book. The papers are organized in topical sections.

Selected Areas in Cryptography - SAC 2019 Kenneth G. Paterson, Douglas Stebila, 2020-03-01 This book contains revised selected papers from the 26th International Conference on Selected Areas in Cryptography SAC 2019 held in Waterloo ON Canada in August 2019. The 26 full papers presented in this volume were carefully reviewed and selected from 74 submissions. They cover the following research areas: Design and analysis of symmetric key primitives and cryptosystems including block and stream ciphers, hash functions, MAC algorithms, and authenticated encryption schemes; efficient implementations of symmetric and public key algorithms; mathematical and algorithmic aspects of applied cryptology.

cryptography for the Internet of Things      **Selected Areas in Cryptography - SAC 2018** Carlos Cid, Michael J. Jacobson Jr., 2019-01-15 This book contains revised selected papers from the 25th International Conference on Selected Areas in Cryptography SAC 2018 held in Calgary AB Canada in August 2018 The 22 full papers presented in this volume were carefully reviewed and selected from 57 submissions They cover the following research areas design and analysis of symmetric key primitives and cryptosystems including block and stream ciphers hash functions MAC algorithms and authenticated encryption schemes efficient implementations of symmetric and public key algorithms mathematical and algorithmic aspects of applied cryptology cryptography for the Internet of Things      **Selected Areas in Cryptography** Orr Dunkelman, Michael J. Jacobson, Jr., Colin O'Flynn, 2021-07-20 This book contains revised selected papers from the 27th International Conference on Selected Areas in Cryptography SAC 2020 held in Halifax Nova Scotia Canada in October 2020 The 27 full papers presented in this volume were carefully reviewed and selected from 52 submissions They cover the following research areas design and analysis of symmetric key primitives and cryptosystems including block and stream ciphers hash functions MAC algorithms and authenticated encryption schemes efficient implementations of symmetric and public key algorithms mathematical and algorithmic aspects of applied cryptology and secure elections and related cryptographic constructions      *Selected Areas in Cryptography* Douglas R. Stinson, Stafford Tavares, 2003-06-29 This book constitutes the thoroughly refereed post proceedings of the 7th Annual International Workshop on Selected Areas in Cryptography SAC 2000 held in Waterloo Ontario Canada in August 2000 The 24 revised full papers presented were selected from 41 submissions and have gone through two rounds of reviewing and revision The papers are organized in topical sections on cryptanalysis block ciphers new designs elliptic curves and efficient implementations security protocols and applications block ciphers and hash functions Boolean functions and stream ciphers and public key systems      **Selected Areas in Cryptography** Evangelos Kranakis, Paul C. van Oorschot, 2012-12-06 Selected Areas in Cryptography brings together in one place important contributions and up to date research results in this fast moving area Selected Areas in Cryptography serves as an excellent reference providing insight into some of the most challenging research issues in the field      *Selected Areas in Cryptography* Kaisa Nyberg, Howard Heys, 2003-07-01 This book constitutes the thoroughly refereed post proceedings of the 9th Annual International Workshop on Selected Areas in Cryptology SAC 2002 held in St John s Newfoundland Canada in August 2002 The 25 revised full papers presented were carefully selected from 90 submissions during two rounds of reviewing and improvement The papers are organized in topical sections on elliptic curve enhancements SNOW encryption schemes differential attacks Boolean functions and stream ciphers block cipher security signatures and secret sharing MAC and hash constructions and RSA and XTR enhancements      Selected Areas in Cryptography Mitsuru Matsui, 2004-03-29 This book constitutes the thoroughly refereed postproceedings of the 10th Annual International Workshop on Selected Areas in Cryptography SAC 2003 held in Ottawa Canada in August 2003 The 25 revised

full papers presented were carefully selected from 85 submissions during two rounds of reviewing and improvement. The papers are organized in topical sections on elliptic and hyperelliptic curves, side channel attacks, security protocols and applications, cryptanalysis, cryptographic primitives, stream ciphers and efficient implementations.

**Selected Areas in Cryptography** Ali Miri, Serge Vaudenay, 2012-03-01. This book constitutes the thoroughly refereed post conference proceedings of the 18th Annual International Workshop on Selected Areas in Cryptography SAC 2011 held in Toronto, Canada in August 2011. The 23 revised full papers presented together with 2 invited papers were carefully reviewed and selected from 92 submissions. The papers are organized in topical sections on cryptanalysis of hash functions, security in clouds, bits and randomness, cryptanalysis of ciphers, cryptanalysis of public key cryptography, cipher implementation, new designs and mathematical aspects of applied cryptography.

**Selected Areas in Cryptography** Serge Vaudenay, Amr M. Youssef, 2003-06-30. This book constitutes the thoroughly refereed post proceedings of the 8th International Workshop on Selected Areas in Cryptology SAC 2001 held in Toronto, Ontario, Canada in August 2001. The 25 revised full papers presented together with the abstracts of two invited talks were carefully reviewed and selected during two rounds of refereeing and revision. The papers are organized in topical sections on cryptanalysis, Boolean functions, Rijndael, elliptic curves and efficient implementation, public key systems and protocols and MAC.

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**Selected Areas in Cryptography** Liam Keliher, Francesco Sica, 2009-09-03. This volume constitutes the selected papers of the 15th Annual International Workshop on Selected Areas in Cryptography SAC 2008 held in Sackville, New Brunswick, Canada in August 14-15, 2008. From a total of 99 technical papers, 27 papers were accepted for presentation at the workshop. They cover the following topics: elliptic and hyperelliptic arithmetic, block ciphers, hash functions, mathematical aspects of applied cryptography, stream ciphers, cryptanalysis, cryptography with algebraic curves, curve based primitives in hardware.

**Selected Areas in Cryptography** Alex Biryukov, Guang Gong, Douglas R. Stinson, 2011-03-03. This book constitutes the thoroughly refereed post proceedings of the 17th Annual International Workshop on Selected Areas in Cryptography SAC 2010 held in Waterloo, Ontario, Canada in August 2010. The 24 revised full papers presented together with 2 invited papers were carefully reviewed and selected from 90 submissions. The papers are organized in topical sections on hash functions, stream ciphers, efficient implementations, coding and combinatorics, block ciphers, side channel attacks and mathematical

aspects     Selected Areas in Cryptography Eli Biham, Amr M. Youssef, 2007-09-14 This volume constitutes the refereed post proceedings of the 13th International Workshop on Selected Areas in Cryptography Twenty five full papers are presented along with two important invited talks The papers are organized into topical sections covering block cipher cryptanalysis stream cipher cryptanalysis block and stream ciphers side channel attacks efficient implementations message authentication codes and hash functions     Selected Areas in Cryptography - SAC 2017 Carlisle Adams, Jan Camenisch, 2018-01-12 This book contains revised selected papers from the 24th International Conference on Selected Areas in Cryptography SAC 2017 held in Ottawa ON Canada in August 2017 The 23 full papers presented in this volume were carefully reviewed and selected from 66 submissions The focus of the conference was on specific themes in the area of cryptographic system design and analysis such as Design and analysis of symmetric key cryptosystems Primitives for symmetric key cryptography including block and stream ciphers hash functions and MAC algorithms Efficient implementations of symmetric and public key algorithms     **Selected Areas in Cryptography** Michael J. Jacobson, Vincent Rijmen, Rei Safavi-Naini, 2009-11-03 The 16th Workshop on Selected Areas in Cryptography SAC 2009 was held at the University of Calgary in Calgary Alberta Canada during August 13 14 2009 There were 74 participants from 19 countries Previous workshops in this series were held at Queens University in Kingston 1994 1996 1998 1999 and 2005 Carleton University in Ottawa 1995 1997 and 2003 University of Waterloo 2000 and 2004 Fields Institute in Toronto 2001 Memorial University of Newfoundland in St Johns 2002 Concordia University in Montreal 2006 University of Ottawa 2007 and Mount Allison University in Sackville 2008 The themes for SAC 2009 were 1 Design and analysis of symmetric key primitives and cryptosystems including block and stream ciphers hash functions and MAC algorithms 2 Efficient implementations of symmetric and public key algorithms 3 Mathematical and algorithmic aspects of applied cryptology 4 Privacy enhancing cryptographic systems This included the traditional themes the first three together with a special theme for 2009 workshop fourth theme     *Selected Areas in Cryptography - SAC 2024* Maria Eichlseder, Sébastien Gambs, 2025-03-12 This two volume set LNCS 15516 15517 contains revised selected papers from the 31st International Conference on Selected Areas in Cryptography SAC 2024 held in Montreal QC Canada in August 2024 The 25 full papers presented in these proceedings were carefully reviewed and selected from 95 submissions The papers are organized in the following topical sections Part I Privacy preserving cryptography post quantum cryptography attacks on public key cryptography and identity based encryption Part II Authenticated encryption symmetric design strategies cryptanalysis of arithmetization oriented primitives symmetric primitive design and implementations and side channel analysis

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