

# Steve Kremer

Laboratoire Spécification et Vérification  
École Normale Supérieure de Cachan & CNRS  
61, avenue du Président Wilson  
94235 CACHAN Cedex - France

born on 28/08/1976 at Luxembourg  
Luxembourg citizenship  
married, two children

p : +33 (0)1 47 40 75 45, f : +33 (0)1 47 40 75 21  
kremer@lsv.ens-cachan.fr

## Positions

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**2004** – : Full-time researcher (*Chargé de recherches*) INRIA Saclay — Île-de-France (Project SECSI) at Laboratoire Spécification et Vérification, École Normale Supérieure de Cachan & CNRS (CR1 since 2006)

**2003** – **2004** : *Chargé d'enseignement* at Univeristé du Mons-Hainaut

**1999** – **2004** : Assistant Researcher at the Computer Science Department, Université Libre de Bruxelles

**1998** – **1999** : Student Assistant, Université Libre de Bruxelles

## Education

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**2003** Ph.D. in Computer Science, Université Libre de Bruxelles, December 2003.

**1999** *Licence* (M.Sc.) in Computer Science, *La Plus Grande Distinction* (Greatest Honours), Université Libre de Bruxelles

**1997** *Candidature* in Computer Science, *Distinction*, Université Libre de Bruxelles

**1995** Diplôme de fin d'études secondaires, section D (economy-mathematics), *mention Bien*, Lycée Hubert Clement Esch-sur-Alzette, Luxembourg

## Languages

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Luxembourgish (mother tongue), French (fluent), Dutch (fluent), German (fluent), English (fluent), Italian (good notions)

## Research stays

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- 26/10/2008-08/11/2008: two week research stay at the AIST, Tokyo, Japan.
- 01/10/2005-31/10/2005: one-month research stay at the University of Birmingham, in the group of Dr Mark D. Ryan and Prof. Marta Kwiatkowska.

- 01/02/2004–31/07/2004: six-month research stay at the University of Birmingham, in the group of Dr Mark D. Ryan and Prof. Marta Kwiatkowska.
- 01/06/2003–31/07/2003: two-month stay at the University of Pennsylvania, in the group of Prof. Andre Scedrov.
- 08/07/2002–13/07/2002: one week stay at the *Laboratoire Spécification et Vérification* of the CNRS and the Ecole Normale Supérieure de Cachan, in order to work with Alexandre Boisseau.
- 01/01/2001–01/02/2001: international fellow at the *Stanford Research Institute*, in the group of Dr Victoria Stavridou and Dr Bruno Dutertre.

## Theses

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- *Formal Analysis of Optimistic Fair Exchange Protocols*, Ph.D. thesis, Université Libre de Bruxelles, December 2003.  
Jury : Hubert Comon-Lundh, Raymond Devillers, Jean-François Raskin (co-supervisor), Yves Roggeman (supervisor), Andre Scedrov.
- *A Study of Several Non-repudiation protocols*, Master Thesis supervised by Pr. Y. Roggeman. Jury : Y. Roggeman, G. Latouche, T. Massart, O. Markowitch. Université Libre de Bruxelles, June 1999, *La Plus Grande Distinction*.  
This thesis was awarded the *Solvay award* in May 2000.

## Program Committees

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- SecReT'10 (*5th International Workshop on Security and Rewriting Techniques*): **co-chair** with Paliath Narendran
- MoVeP'10 (*Modelling and Verifying Parallel Processes*)
- WISSEC'09 (*4th Benelux Workshop on Information and System Security*)
- SecCo'09 (*7th International Workshop on Security Issues in Concurrency*): **co-chair** with Michele Boreale
- ASIAN'09 (*13th Annual Asian Computing Science Conference*)
- VOTE-ID'09 (*Second international conference on E-voting and Identity*)
- SecCo'08 (*6th International Workshop on Security Issues in Concurrency*): **co-chair** with Prakash Panangaden
- FMSE'08 (*6th ACM Workshop on Formal Methods in Security Engineering*)
- ICICS'08 (*10th International Conference on Information and Communications Security*)
- WOTE'08 (*IAVoSS Workshop On Trustworthy Elections*)
- ISC'08 (*11th Information Security Conference*)

- ISPEC'08 (*4th Information Security Practice and Experience Conference*)
- WOTE'07 (*IAVoSS Workshop On Trustworthy Elections*)
- IMIS'07 (*Interactive Multimedia & Intelligent Services in Mobile and Ubiquitous Computing*)
- ISC'07 (*10th Information Security Conference*)
- FCC'06 (*2nd workshop on Formal and Computational Cryptography*): **co-chair** with Véronique Cortier
- WOTE'06 (*IAVoSS Workshop On Trustworthy Elections*)
- ICS'06 (*Workshop on Information and Computer Security*)
- SecUbiq'06 (*2nd international workshop on Security in Ubiquitous Computing Systems*)
- IWAP'05 (*4th International Workshop for Applied PKI*)

## Organizing Committees

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- general chair of the 24th IEEE Computer Security Foundations Symposium (CSF 2011)
- co-organizer of the Dagstuhl seminar *Formal Protocol Verification Applied*, October 2007
- member of the organizing committee of the 4th International Conference on Formal Modelling and Analysis of Timed Systems (FORMATS'06)
- co-organizer of the ARTIST2 security workshop, (Pisa, 2006 and Trento, 2007)
- member of the organizing committee of *Perspectives in Verification* (workshop in honour of Prof. Dr. Wolfgang Thomas), Cachan, 2005
- co-organizer of the *Workshop on the link between formal and computational models*, Paris, 2005

## Invited tutorials

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- *Computational soundness of equational theories* Workshop on the Interplay of Programming Languages and Cryptography 2007
- *Formal Verification of Cryptographic Protocols* Summer school MOVEP'06 (MOdelling and VERifying parallel Processes)

## Reviewing

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- I am a regular reviewer for international journals: Computer Networks, International Journal of Information Security (IJIS), Journal of Computer Security (JCS), Journal of Systems and Software, Information and Computation, ACM Transactions on Information and System Security (TISSEC), Annals Of Telecommunication, IEEE Transactions On Computers, IEE Proc. Information Security, IEEE Transactions on Dependable and Secure Computing, International Journal of Networks and Security,

Theoretical Computer Science (TCS), Journal on Automated Reasoning (JAR), Journal on Formal Aspects of Computing, ACM Transactions on Computational Logic (TOCL), Information Sciences, Mathematical Structures in Computer Science (MSCS), Journal of Logic and Algebraic Programming (JLAP),

- I am a regular reviewer for international conferences and workshops: Save'01, TACAS'04, ARSPA'04, TYPES'04, CAV'05, Concur'05, CSFW'05, FM'05, FMSE'05, MFCS'05, AMAST'06, CSFW'06, CONCUR'06, CRYPTO'06, FCS-ARSPA'06, FMSE'06, FOSSACS'06, Secrypt06, CSF'07, CSR'07, HSCC'07, FMSE'07, FST&TCS'07, ICALP'07, MFCS'07, TACAS'07, FOSSACS'08, CSF'08, POPL'09, STACS'09, FOSSACS'09, CSF'09, CSL'09, FST&TCS'09, CCS'10, ASIACCS'10, CSF'10, LICS'10, STACS'10
- I was a reviewer for the Dutch NWO computer science competition in 2005, for the French ANR ARPEGE in 2008, for funding applications at the University of Luxembourg in 2008
- PhD committees
  - Jury member (*examineur*) for C. Braun (École Polytechnique, France), 2010.
  - External reviewer for D. Kaehler (Christian-Albrechts-Universität zu Kiel, Germany), 2008.

## Supervision

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- PhD students:
  - Ștefan Ciobâcă (2008 – ). Co-supervised with Véronique Cortier.
  - Antoine Mercier (2006 – 2009). Co-supervised with Ralf Treinen.
- Post-docs: Laurent Mazaré (10/2006–03/2007), Graham Steel (10/2007–08/2008), Joe-Kai Tsay (since 10/2009)
- Master students: Ștefan Ciobâcă (2008, co-supervised with Stéphanie Delaune), Nicolas Tanghe (2003), Jamal Saghir (2003), Sébastien Vandamme (2002, co-supervised with Olivier Markowitch).

## Projects

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I am/was involved in the following projects

- JST-CNRS project *Cryptography and logic: Computer-checked security proofs* (French-Japanese project)
- ARA SESUR AVOTÉ (funded by the French ministry of Research),
- ARA SSIA FormaCrypt (funded by the French ministry of Research),
- ARTIST2 European network of excellence
- RNTL PROUVÉ (funded by the French ministry of Research)
- ACI Rossignol (funded by the French ministry of Research)

## Teaching

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- 2009–2010 Part of *Cryptographic protocols: formal and computational proofs* in the “Master Parisien de Recherche en Informatique” .
- 2007–2008 Part of *Cryptographic protocols: formal and computational proofs* in the “Master Parisien de Recherche en Informatique” .
- 2006–2007 Course on *Cryptographic Protocols* (part of the course “ Vérification de systèmes dynamiques et paramétrés”) in the “Master Parisien de Recherche en Informatique”.
- 2005–2009 Course on *Verification of Cryptographic Protocols* (part of the course “Méthodes de vérification de sécurité”) in the “Master Sécurité des Systèmes Informatiques” at Paris 12.
- 2005–2006 Exercise sessions of *Complexity* in the “Magistère” at ENS Cachan.
- 2003–2004 *Bases de Données* (Data Bases) (introduction, entity-relation model, relational model, formal query languages, SQL, integrity and security, normalization theory, specialized data structures).
- 1999–2004 Practical part of *Algorithmique Générale 1* (General Algorithmics part 1) (search and sorting algorithms, recursion, basic data structures such as trees and heaps, backtracking algorithms).
- 1999–2004 Practical part of *Algorithmique Générale 2* (General Algorithmics part 2) (de-recursification techniques, abstract data types, graph algorithms).
- 1999–2004 Practical part of *Réseaux* (Computer Networks) (introduction to networks, network layers, TCP/IP and OSI models).
- 2001–2002 Practical part of *Modèles stochastiques des systèmes informatiques* (stochastic models in computer science) (probability theory, markov chains and markovian processes applied to the modeling of computer systems).
- 2001–2002 Practical part of *Modélisation informatique* (Modeling in Computer Science). (introduction to programming in C and basic algorithms, generation of stochastic variables, introduction to simulations).
- 1999–2001 Practical part of *Informatique et Mathématiques de la gestion* (Computer science and mathematics applied to management) (introduction to programming in Pascal and basic algorithms, introduction to simulations).

## Responsibilities

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- 2010 member of the hiring committee (*Jury CR*) of INRIA Saclay—Île-de-France
- since 2008 member of the *Commission Scientifique* of INRIA Saclay—Île-de-France
- since 2007 vice-head (*responsable permanent*) of the INRIA SECSI team
- 2009 member of the hiring committee (“comité de sélection”) for a Verimag/CEA chair of Ensimag, Grenoble
- 2007–2008 member of the hiring committee (“commission de spécialistes”) in computer science of ENS Cachan
- 2004–2008 organizer of LSV’s weekly seminar
- 2000–2004 member of the *Conseil du Département* of the computer science department, Brussels Free University

## Publications

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### Book chapters

- [1] Stéphanie Delaune, Steve Kremer, and Mark D. Ryan. [Verifying privacy-type properties of electronic voting protocols: A taster](#). In David Chaum, Markus Jakobsson, Ronald L. Rivest, Peter Y. A. Ryan, Josh Benaloh, Mirosław Kutylowski, and Ben Adida, editors, *Towards Trustworthy Elections – New Directions in Electronic Voting*, volume 6000 of *Lecture Notes in Computer Science*, pages 289–309. Springer, May 2010.

### Edited books

- [2] Michele Boreale and Steve Kremer, editors. *Proceedings of the 7th International Workshop on Security Issues in Concurrency (SecCo'09)*, volume 7 of *Electronic Proceedings in Theoretical Computer Science*.
- [3] Steve Kremer and Prakash Panangaden, editors. *Proceedings of the 6th International Workshop on Security Issues in Concurrency (SecCo'08)*, volume 242(3) of *Electronic Notes in Theoretical Computer Science*. Elsevier Science Publishers, August 2009.
- [4] Liqun Chen, Steve Kremer, and Mark D. Ryan, editors. *Formal Protocol Verification Applied*, volume 07421 of *Dagstuhl Seminar Proceedings*.
- [5] Véronique Cortier and Steve Kremer, editors. *Proceedings of the 2nd Workshop on Formal and Computational Cryptography (FCC'06)*.

### Journals

- [6] Ștefan Ciobâcă, Stéphanie Delaune, and Steve Kremer. [Computing knowledge in security protocols under convergent equational theories](#). *Journal of Automated Reasoning*, 2010. To appear.
- [7] Véronique Cortier, Steve Kremer, and Bogdan Warinschi. [A survey of symbolic methods in computational analysis of cryptographic systems](#). *Journal of Automated Reasoning*, 2010. To appear.
- [8] Stéphanie Delaune, Steve Kremer, and Graham Steel. [Formal analysis of PKCS#11 and proprietary extensions](#). *Journal of Computer Security*, 2010. To appear.
- [9] Steve Kremer and Laurent Mazaré. [Computationally sound analysis of protocols using bilinear pairings](#). *Journal of Computer Security*, 2010. To appear.
- [10] Steve Kremer, Antoine Mercier, and Ralf Treinen. [Reducing equational theories for the decision of static equivalence](#). *Journal of Automated Reasoning*, 2010. To appear.
- [11] Stéphanie Delaune, Steve Kremer, and Mark D. Ryan. [Symbolic bisimulation for the applied pi calculus](#). *Journal of Computer Security*, 18(2):317–377, March 2010.
- [12] Stéphanie Delaune, Steve Kremer, and Mark D. Ryan. [Verifying privacy-type properties of electronic voting protocols](#). *Journal of Computer Security*, 17(4):435–487, July 2009.
- [13] Mathieu Baudet, Véronique Cortier, and Steve Kremer. [Computationally sound implementations of equational theories against passive adversaries](#). *Information and Computation*, 207(4):496–520, April 2009.
- [14] Jean Cardinal, Steve Kremer, and Stefan Langerman. [Juggling with pattern matching](#). *Theory of Computing Systems*, 39(3):425–437, June 2006.
- [15] Rohit Chadha, Steve Kremer, and Andre Scedrov. [Formal analysis of multi-party contract signing](#). *Journal of Automated Reasoning*, 36(1-2):39–83, January 2006.

- [16] Steve Kremer and Jean-François Raskin. [A game-based verification of non-repudiation and fair exchange protocols](#). *Journal of Computer Security*, 11(3):399–429, 2003.
- [17] Steve Kremer and Olivier Markowitch. [Fair multi-party non-repudiation protocols](#). *International Journal on Information Security*, 1(4):223–235, July 2003.
- [18] Steve Kremer, Olivier Markowitch, and Jianying Zhou. [An intensive survey of fair non-repudiation protocols](#). *Computer Communications*, 25(17):1606–1621, November 2002.

#### Invited talks in conferences

- [19] Steve Kremer. [Computational soundness of equational theories \(tutorial\)](#). In Gilles Barthe and Cédric Fournet, editors, *Revised Selected Papers from the 3rd Symposium on Trustworthy Global Computing (TGC’07), Sophia-Antipolis, France, November 2007*, volume 4912 of *Lecture Notes in Computer Science*, pages 363–382. Springer, 2008.

#### Other invited talks

- [20] Stéphanie Delaune, Steve Kremer, and Graham Steel. [Formal analysis of PKCS#11](#). In Tei-Wei Kuo and Samuel Cruz-Lara, editors, *Proceedings of the 4th Taiwanese-French Conference on Information Technology (TFIT’08), Taipei, Taiwan, March 2008*, pages 267–278.
- [21] Steve Kremer. [Formal verification of cryptographic protocols](#). Invited tutorial, 7th School on Modelling and Verifying Parallel Processes (MOVEP’06), Bordeaux, France, June 2006. 5 pages.

#### Conferences

- [22] Ben Smyth, Mark D. Ryan, Steve Kremer, and Mounira Kourjeh. [Towards automatic analysis of election verifiability properties](#). In Alessandro Armando and Gavin Lowe, editors, *Proceedings of the Joint Workshop on Automated Reasoning for Security Protocol Analysis and Issues in the Theory of Security (ARSPA-WITS’10), Paphos, Cyprus, March 2010*, Lecture Notes in Computer Science. Springer, 2010. To appear.
- [23] Steve Kremer, Ben Smyth, and Mark D. Ryan. Election verifiability in electronic voting protocols. In Dimitris Gritzalis and Bart Preneel, editors, *Proceedings of the 15th European Symposium on Research in Computer Security (ESORICS’10), Athens, Greece, September 2010*, Lecture Notes in Computer Science. Springer. To appear.
- [24] Stéphanie Delaune, Steve Kremer, and Olivier Pereira. [Simulation based security in the applied pi calculus](#). In Ravi Kannan and K. Narayan Kumar, editors, *Proceedings of the 29th Conference on Foundations of Software Technology and Theoretical Computer Science (FSTTCS’09), Kanpur, India, December 2009*, volume 4 of *Leibniz International Proceedings in Informatics*, pages 169–180. Leibniz-Zentrum für Informatik.
- [25] Steve Kremer, Antoine Mercier, and Ralf Treinen. [Reducing equational theories for the decision of static equivalence](#). In Anupam Datta, editor, *Proceedings of the 13th Asian Computing Science Conference (ASIAN’09), Seoul, Korea, December 2009*, volume 5913 of *Lecture Notes in Computer Science*, pages 94–108. Springer.
- [26] Ștefan Ciobâcă, Stéphanie Delaune, and Steve Kremer. [Computing knowledge in security protocols under convergent equational theories](#). In Renate Schmidt, editor, *Proceedings of the 22nd International Conference on Automated Deduction (CADE’09), Montreal, Canada, August 2009*, Lecture Notes in Artificial Intelligence, pages 355–370. Springer.
- [27] Rohit Chadha, Stéphanie Delaune, and Steve Kremer. [Epistemic logic for the applied pi calculus](#). In David Lee, Antónia Lopes, and Arnd Poetzsch-Heffter, editors, *Proceedings of IFIP International Conference on Formal Techniques for Distributed Systems (FMOODS/FORTE’09), Lisbon, Portugal, June 2009*, volume 5522 of *Lecture Notes in Computer Science*, pages 182–197. Springer.

- [28] Myrto Arapinis, Stéphanie Delaune, and Steve Kremer. [From one session to many: Dynamic tags for security protocols](#). In Iliano Cervesato, Helmut Veith, and Andrei Voronkov, editors, *Proceedings of the 15th International Conference on Logic for Programming, Artificial Intelligence, and Reasoning (LPAR'08), Doha, Qatar, November 2008*, volume 5330 of *Lecture Notes in Artificial Intelligence*, pages 128–142. Springer.
- [29] Steve Kremer, Antoine Mercier, and Ralf Treinen. [Proving group protocols secure against eavesdroppers](#). In Alessandro Armando, Peter Baumgartner, and Gilles Dowek, editors, *Proceedings of the 4th International Joint Conference on Automated Reasoning (IJCAR'08), Sydney, Australia, August 2008*, volume 5195 of *Lecture Notes in Artificial Intelligence*, pages 116–131. Springer-Verlag.
- [30] Stéphanie Delaune, Steve Kremer, and Mark D. Ryan. [Composition of password-based protocols](#). In *Proceedings of the 21st IEEE Computer Security Foundations Symposium (CSF'08), Pittsburgh, PA, USA, June 2008*, pages 239–251. IEEE Computer Society Press.
- [31] Stéphanie Delaune, Steve Kremer, and Graham Steel. [Formal analysis of PKCS#11](#). In *Proceedings of the 21st IEEE Computer Security Foundations Symposium (CSF'08), Pittsburgh, PA, USA, June 2008*, pages 331–344. IEEE Computer Society Press.
- [32] Stéphanie Delaune, Steve Kremer, and Mark D. Ryan. [Symbolic bisimulation for the applied pi-calculus](#). In V. Arvind and Sanjiva Prasad, editors, *Proceedings of the 27th Conference on Foundations of Software Technology and Theoretical Computer Science (FSTTCS'07), New Delhi, India, December 2007*, volume 4855 of *Lecture Notes in Computer Science*, pages 133–145. Springer.
- [33] Steve Kremer and Laurent Mazaré. [Adaptive soundness of static equivalence](#). In Joachim Biskup and Javier Lopez, editors, *Proceedings of the 12th European Symposium on Research in Computer Security (ESORICS'07), Dresden, Germany, September 2007*, volume 4734 of *Lecture Notes in Computer Science*, pages 610–625. Springer.
- [34] Véronique Cortier, Steve Kremer, Ralf Küsters, and Bogdan Warinschi. [Computationally sound symbolic secrecy in the presence of hash functions](#). In Naveen Garg and S. Arun-Kumar, editors, *Proceedings of the 26th Conference on Foundations of Software Technology and Theoretical Computer Science (FSTTCS'06), Kolkata, India, December 2006*, volume 4337 of *Lecture Notes in Computer Science*, pages 176–187. Springer.
- [35] Stéphanie Delaune, Steve Kremer, and Mark D. Ryan. [Coercion-resistance and receipt-freeness in electronic voting](#). In *Proceedings of the 19th IEEE Computer Security Foundations Workshop (CSFW'06), Venice, Italy, July 2006*, pages 28–39. IEEE Computer Society Press.
- [36] Aybek Mukhamedov, Steve Kremer, and Eike Ritter. [Analysis of a multi-party fair exchange protocol and formal proof of correctness in the strand space model](#). In Andrew S. Patrick and Moti Yung, editors, *Revised Papers from the 9th International Conference on Financial Cryptography and Data Security (FC'05), Roseau, The Commonwealth Of Dominica, February-March 2005*, volume 3570 of *Lecture Notes in Computer Science*, pages 255–269. Springer, August 2005.
- [37] Mathieu Baudet, Véronique Cortier, and Steve Kremer. [Computationally sound implementations of equational theories against passive adversaries](#). In Luís Caires, Giuseppe F. Italiano, Luís Monteiro, Catuscia Palamidessi, and Moti Yung, editors, *Proceedings of the 32nd International Colloquium on Automata, Languages and Programming (ICALP'05), Lisboa, Portugal, July 2005*, volume 3580 of *Lecture Notes in Computer Science*, pages 652–663. Springer.
- [38] Steve Kremer and Mark D. Ryan. [Analysing the vulnerability of protocols to produce known-pair and chosen-text attacks](#). In Riccardo Focardi and Gianluigi Zavattaro, editors, *Proceedings of the 2nd International Workshop on Security Issues in Coordination Models, Languages and Systems (SecCo'04), London, UK, August 2004*, volume 128(5) of *Electronic Notes in Theoretical Computer Science*, pages 84–107. Elsevier Science Publishers, May 2005.

- [39] Steve Kremer and Mark D. Ryan. [Analysis of an electronic voting protocol in the applied pi-calculus](#). In Mooly Sagiv, editor, *Programming Languages and Systems — Proceedings of the 14th European Symposium on Programming (ESOP'05), Edinburgh, Scotland, UK, April 2005*, volume 3444 of *Lecture Notes in Computer Science*, pages 186–200. Springer.
- [40] Shahrokh Saeednia, Steve Kremer, and Olivier Markowitch. [An efficient strong designated verifier signature scheme](#). In Jong In Lim and Dong Hoon Lee, editors, *Revised Papers of the 6th International Conference on Information Security and Cryptology (ICISC'03), Seoul, Korea, November 2003*, volume 2971 of *Lecture Notes in Computer Science*, pages 40–54. Springer, 2004.
- [41] Rohit Chadha, Steve Kremer, and Andre Scedrov. [Formal analysis of multi-party contract signing](#). In *Proceedings of the 17th IEEE Computer Security Foundations Workshop (CSFW'04), Asilomar, Pacific Grove, California, USA, June 2004*, pages 266–279. IEEE Computer Society Press.
- [42] Jean Cardinal, Steve Kremer, and Stefan Langerman. [Juggling with pattern matching](#). In Paolo Ferragina and Roberto Grossi, editors, *Proceedings of the 3rd International Conference on Fun with Algorithms (FUN'04), Isola d'Elba, Italy, May 2004*, pages 147–158. Edizioni Plus, Università di Pisa.
- [43] Olivier Markowitch, Dieter Gollmann, and Steve Kremer. [On fairness in exchange protocols](#). In Pil Joong Lee and Chae Hoon Lim, editors, *Revised Papers of the 5th International Conference on Information Security and Cryptology (ICISC'02), Seoul, Korea, November 2002*, volume 2587 of *Lecture Notes in Computer Science*, pages 451–464. Springer, 2003.
- [44] Steve Kremer and Jean-François Raskin. [Game analysis of abuse-free contract signing](#). In *Proceedings of the 15th IEEE Computer Security Foundations Workshop (CSFW'02), Cape Breton, Nova Scotia, Canada, June 2002*, pages 206–220. IEEE Computer Society Press.
- [45] Olivier Markowitch and Steve Kremer. [A multi-party optimistic non-repudiation protocol](#). In Dongho Won, editor, *Proceedings of the 3rd International Conference on Information Security and Cryptology (ICISC 2000), Seoul, Korea, December 2000*, volume 2015 of *Lecture Notes in Computer Science*, pages 109–122. Springer, 2001.
- [46] Steve Kremer and Olivier Markowitch. [Selective receipt in certified e-mail](#). In C. Pandu Rangan and Cunsheng Ding, editors, *Proceedings of the 2nd International Conference on Cryptology in India (INDOCRYPT'01), Chennai, India, December 2001*, volume 2247 of *Lecture Notes in Computer Science*, pages 136–148. Springer.
- [47] Olivier Markowitch and Steve Kremer. [An optimistic non-repudiation protocol with transparent trusted third party](#). In George I. Davida and Yair Frankel, editors, *Proceedings of the 4th International Conference on Information Security (ISC'01), Malaga, Spain, October 2001*, volume 2200 of *Lecture Notes in Computer Science*, pages 363–378. Springer.
- [48] Steve Kremer and Jean-François Raskin. [A game-based verification of non-repudiation and fair exchange protocols](#). In Kim G. Larsen and Modens Nielsen, editors, *Proceedings of the 12th International Conference on Concurrency Theory (CONCUR'01), Aalborg, Denmark, August 2001*, volume 2154 of *Lecture Notes in Computer Science*, pages 551–565. Springer.

## Workshops

- [49] Ben Smyth, Mark D. Ryan, Steve Kremer, and Mounira Kourjeh. [Election verifiability in electronic voting protocols \(preliminary version\)](#). In Olivier Pereira, Jean-Jacques Quisquater, and François-Xavier Standaert, editors, *Proceedings of the 4th Benelux Workshop on Information and System Security (WISSEC'09)*, Louvain-la-Neuve, Belgium, November 2009.
- [50] Ștefan Ciobâcă, Stéphanie Delaune, and Steve Kremer. [Computing knowledge in security protocols under convergent equational theories](#). In Hubert Comon-Lundh and Catherine Meadows, editors, *Preliminary Proceedings of the 4th International Workshop on Security and Rewriting Techniques (SecReT'09)*, Port Jefferson, NY, USA, July 2009, pages 47–58.
- [51] Steve Kremer, Antoine Mercier, and Ralf Treinen. [Reducing equational theories for the decision of static equivalence \(preliminary version\)](#). In Hubert Comon-Lundh and Catherine Meadows, editors, *Preliminary Proceedings of the 4th International Workshop on Security and Rewriting Techniques (SecReT'09)*, Port Jefferson, NY, USA, July 2009.
- [52] Stéphanie Delaune, Steve Kremer, and Mark D. Ryan. [Symbolic bisimulation for the applied pi calculus](#). In Daniele Goria and Catuscia Palamidessi, editors, *Preliminary Proceedings of the 5th International Workshop on Security Issues in Concurrency (SecCo'07)*, Lisbon, Portugal, September 2007.
- [53] Steve Kremer and Laurent Mazaré. [Adaptive soundness of static equivalence](#). In Michael Backes and Yassine Lakhnech, editors, *Proceedings of the 3rd Workshop on Formal and Computational Cryptography (FCC'07)*, Venice, Italy, July 2007.
- [54] Stéphanie Delaune, Steve Kremer, and Mark D. Ryan. [Verifying properties of electronic voting protocols](#). In *Proceedings of the IAVoSS Workshop On Trustworthy Elections (WOTE'06)*, Cambridge, UK, June 2006, pages 45–52.
- [55] Stéphanie Delaune, Steve Kremer, and Mark D. Ryan. [Receipt-freeness: Formal definition and fault attacks \(extended abstract\)](#). In *Proceedings of the Workshop Frontiers in Electronic Elections (FEE 2005)*, Milan, Italy, September 2005.
- [56] Rohit Chadha, Steve Kremer, and Andre Scedrov. [Formal analysis of multi-party contract signing](#). In Peter Ryan, editor, *Preliminary Proceedings of the 4th IFIP WG1.7 Workshop on Issues in the Theory of Security (WITS'04)*, Barcelona, Spain, April 2004, pages 153–163.
- [57] Shahrokh Saeednia, Steve Kremer, and Olivier Markowitch. [Efficient designated verifier signatures](#). In *Proceedings of the 24th Symposium on Information Theory in the Benelux, Veldhoven, The Netherlands, May 2003*, pages 187–194.
- [58] Steve Kremer and Olivier Markowitch. [A multi-party non-repudiation protocol](#). In Sihan Qing and Jan H. P. Eloff, editors, *Proceedings of the IFIP TC11 15th Annual Working Conference on Information Security (SEC 2000)*, Beijing, China, August 2000, volume 175 of *IFIP Conference Proceedings*, pages 271–280. Kluwer Academic Publishers.
- [59] Steve Kremer and Jean-François Raskin. [Formal verification of non-repudiation protocols — A game approach](#). In Edmund M. Clarke, Mevin Heintze, and Helmut Veith, editors, *Proceedings of the Workshop on Formal Methods and Computer Security (FMCS 2000)*, Chicago, USA, July 2000.
- [60] Steve Kremer and Jean-François Raskin. [A game approach to the verification of exchange protocols — Application to non-repudiation protocols](#). In Pierpaolo Degano, editor, *Preliminary Proceedings of the 1st IFIP WG1.7 Workshop on Issues in the Theory of Security (WITS 2000)*, Geneva, Switzerland, July 2000.

- [61] Steve Kremer and Olivier Markowitch. [Optimistic non-repudiable information exchange](#). In *Proceedings of the 21st Symposium on Information Theory in the Benelux, Wassenaar, The Netherlands, May 2000*, pages 139–146.

#### Theses

- [62] Steve Kremer. [Formal analysis of optimistic fair exchange protocols](#). Thèse de doctorat, Université Libre de Bruxelles, Belgium, December 2003.

#### Project reports

- [63] Ștefan Ciobâcă and Véronique Cortier. [Algorithmes pour l'équivalence statique](#), September 2009. 17 pages.
- [64] Stéphanie Delaune and Steve Kremer. [Spécificités des protocoles de vote électronique](#), January 2009. 8 pages.
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