Véronique Cortier

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Professional experience and Education

Since Oct. 2010 Research director (directrice de rechercher) of the French National Scientific Research Center (CNRS), at the LORIA laboratory, Nancy, France. **DR1 since 2016**.

Since Nov. 2009 Habilitation to conduct researches. This French diploma gives the official authorization to supervise PhD students on its own. The defense was held on November 18th, 2009.

Oct. 2003 Research Scientist (chargée de recherche) of the French National Scientific Research Center (CNRS), at the LORIA laboratory, Nancy, France.

Sept. 2000 - March 2003 PhD in Computer Science, École Normale Supérieure de Cachan. Supervisor : Pr. Hubert Comon Defense : 20th March 2003
Title : Automatic Verification of Cryptographic Protocols. (**Two Awards**)

Sept. 1997 - Sept. 2001 Master in Mathematics and Computer Science at the École Normale Supérieure de Cachan. "Agrégation" in Mathematics (in 2000).

Awards

CNRS Silver medal 2022

Best paper award at Esorics'20 for the paper Automatic generation of sources lemmas in Tamarin : towards automatic proofs of security protocols with Stéphanie Delaune and Jannik Dreier.

Distinguished paper award at CSF'20 for the paper Fifty Shades of Ballot Privacy : Privacy against a Malicious Board with Joseph Lallemand.

EASST best paper award at ETAPS 2016 with Antoine Dallon and Stéphanie Delaune for the paper *Bounding the number of agents, for equivalence too* presented at POST 2016.

Inria-French Académie des sciences Young Researcher Award 2015

Scientific PhD thesis Award 2004 from *Le Monde* (one of the main French newspapers).

PhD thesis Award 2003 from SPECIF (French association of University professors in Computer Science).

Professional activities

Publications 20+ international journals, 2 edited books and, 70+ international conferences.

chair of CCS in 2025 and 2026.

Editor in chief of *Journal of Computer Security* (JCS) from 2019 to 2022, and member of the editorial board from 2012 to 2019.

Member of the editorial board of IACR Communications in Cryptology in 2024.

Member of the editorial board of ACM Books since 2022.

Member of the editorial board of *ACM Transactions on Privacy and Security (TOPS, previously TISSEC)* since 2015.

Member of the editorial board of *Foundations and Trends (FnT) in Security and Privacy* since 2014.

Member of the editorial board of *Information and Computation* (I&C) from 2012 to 2018.

Member of the Steering committee of CSF (*Computer Security Conference*) (2011-2019)

Member of the Steering committee of POST (*Conference on Principles of Security and Trust*) (2014-2018)

Chair of EVoteID'18 and EVoteID'19, technical track

Chair of CSF'12 and CSF'13

Vice-chair of the international working group IFIP Wg-1.7 Foundations of Security Analysis since 2009.

Program committees member of several conferences each year, in the **security community**, *e.g.* S&P'19-20-22, CCS'10-12-13-14-16-17-18-20, CSF'06-08-09-12-13-19-21-22-23, ESORICS'10-11-12-14, EuroCrypt'21, EVoteID'16-17-18-19-20-21-22-23-24, POST'12-13-15-17-18-19, as well as the **formal methods community**, *e.g.* LICS'10-13-15-17, CONCUR'15-16-20, ICALP'14, FOSSACS'14, FSTTCS'10, MFCS'16.

Head of the « security axis » of Loria of the Loria lab, and **member of the scientific council** of the Loria lab from 2012 to 2018.

Head of the Verification working group (GT-Verif) of the GdR-IM (2012-2017). This working group gathers about 200 members.

Executive member of SigLog ACM Special Interest Group on Logic and Computation since 2014, Vice-Chair since 2019.

Member of the Scientific Council of INS2I CNRS institute (2014-2018).

Member of the Scientific Council of ANSSI (2019-).

Member of the Scientific Council of IAEM, Lorraine University (2011-2016).

Member of the Scientific Council of ESIEE, Marne la Vallée (2016-2018).

Member of evaluation committees INRIA evaluation committee, several hiring committees (in France and Germany)

Reviews Reviewer for national grants (e.g. for the French ANR agency and Swiss, FWO in Belgium, Luxembourg, Italy, Croatia).
Reviews of more than 30 papers each year in journals (TCS, JACM, JLAP, TOCL, JCS, MSCS, ACTA INFORMATICA, SAR, ...), conferences (STACS, ICALP, FOSSACS, ESOP, CADE, CSL, FSTTCS, CSFW, ACM CCS, SP Oakland, CONCUR, AMAST, RTA, FM, ...) and workshops.

Teaching *Theory of Security* (Advanced lecture in Master) from 2005 to 2020.

Supervision of research

PhDs

Léo Louistisserand (Sep. 2023 -)

Florian Moeser (July 2023 -)

Quentin Yang (Oct. 2020 - June 2023), now engineer at Docaposte - Voxaly

Joseph Lallemand (Sept. 2016 - Nov. 2019), now CNRS researcher at Irisa (Rennes)

Antoine Dallon (Nov. 2015 - Nov. 2018), now research engineer at DGA-MI

Alicia Filipiak (March 2015 - March 2018), now engineer at CNIL

Éric Le Morvan (Oct. 2013 - discontinued), now Math teacher in highscool

Rémy Chrétien (Oct. 2012 - Jan. 2016), now scientific expert at the Ministery of Defense

Cyrille Wiedling (Sept. 2011 - Nov. 2014), now research engineer at DGA-MI

Guillaume Scerri (Sept. 2011 - Jan. 2015), now assistant professor at the university of Versailles

Stefan Ciobaca (Sept. 2008 - Nov 2011), now lecturer at Iasu University, Roumania

Mathilde Arnaud (Sept. 2008 - Oct 2011), now engineer at CEA, France

Heinrich Hördegen (Oct. 2005 - Nov. 2007), now at the Di-IT company, Germany

Eugen Zalinescu (Oct. 2004 - Dec. 2007), now research assistant at TUM, Munich

9 Post-docs

13 Masters

Some Participation in Research Projects

ANR project PEPR SVP (local project investigator) (2022-2028)

Chaire IA (member) (2020-2025)

ANR project Tecap. (member) (2018-2021)

ANR project Sequoia. (member) (2015-2018)

ERC Starting Grant project ProSecure. (principal investigator) *Provably secure systems : foundations, design, and modularity* (1 400 kE, Feb. 2011 - Jan. 2016)

ANR AVOTÉ project (principal investigator) on analyzing e-voting protocols. Grant : 500kE for four years and for four partners (19 members involved). (Jan. 2008 - Dec. 2011)

In the past, I was also co-investigator of the PHC Alliance project on refinement of security properties (6kE for the French side) principal investigator of a French national project (the ACI Jeunes Chercheurs JC9005, 6 members, 80kE, 2004-2007), principal investigator for the French side of a Franco-Tunisian project (about 6kE, 2007-2008). I was also local investigator (for my Lab) of the ARA SSIA FormaCrypt project (about 35kE for my Lab, 2006-2008). Most of these projects included both academic and industrial partners.

Some contracts with industrial partners

In the context of contracts between my team and industrial or State partners, I have worked with the Foreign Affaire ministry (MEAE), Swiss Post, Nomadic Labs, Idemia, Docaposte, Genova canton, Scytl, Voxaly, Orange.

Selected Invited talks

Invited Speaker for Lectures on Cybersecurity, Luxembourg, March 2024.

IRIF Distinguished Talk Paris, February 2024.

Keynote speaker of ETAPS 2023 Paris, April 2023.

Lecturer at the Crypto summer school 2023, Vodice, Croatia, June 2023.

Invited speaker of ABZ 2023 Nancy, May 2023.

Keynote speaker of EVoteID 2023 Luxembourg, October 2023.

Invited speaker at NordSec 2022 Reykjavik, Iceland, Novembre 2022.

Keynote speaker at the Summer School in Cybersecurity, Nancy, France, July 2022.

Panelist at the 10 years SIF congress, Paris, 2022.

Seminar at the IMT (virtual), Lucca, Italy, March 2022.

Invited talk at the Isaac Newton Institute workshop on Verified software : from theory to practice (virtual), May 2021.

Invited talk at IndoCrypt 2020 Bangalore (virtual), India, December 2020.

Plenary talk of CSL 2020 Barcelona, Spain, January 2020.

Keynote speaker of PLAS 2019 London, UK, November 2019.

Keynote speaker of Esorics 2019 Luxembourg, September 2019.

Lecturer at the winter school of VMCAI 2019, Lisbon, Portugal, January 2019.

Keynote speaker of DisCoTec 2018 Madrid, Spain, June 2018.

Invited tutorial at ETAPS 2017, Uppsala, Sweden, April 2017.

Invited talk at Highlights 2017, London, UK, September 2017.

Invited talk at FPS 2017, Nancy, France, October 2017.

Invited talk at CIAA 2017, Marne-la-Vallée, France, June 2017.

Invited talk at Models and Tools for Security Analysis and Proofs Workshop , affiliated with Eurocrypt 2017, Paris, France, April 2017.

Keynote Speech of LIG 2016, Grenoble, France, October 2016.

Colloquium LIRRM 2016, Montpellier, France, September 2016.

GdR-IM National days 2016, Invited talk at the 2016 Colloquium of the French Society in Computer Science, Strasbourg, France, January 2016.

SIF 2016, Invited talk at the 2016 National days of the GdR-IM, Villetaneuse, France, January 2016.

Collège de France 2015 Seminar at "Collège de France", Chaire of Gérard Berry, Paris, March 2015.

Marktoberdorf 2015 Lectures at Summer School Marktoberdorf 2015, Marktoberdorf, Germany, August 2015.

EJCP 2015 Lectures at EJCP 2015, Nancy, France, June 2015.

TGC 2014 Invited speaker at TGC 2014 (Trustworthy Global Computing), Roma, September, 2014.

FLOC 2014 Plenary speaker at FLOC 2014 (Federated Logic Conference), Vienna, July 20th, 2014.

Summer School Lectures at the Fourth Summer School on Formal Techniques, Menlo College, Atherton, CA, May 2014.

Invited speaker at the Science and Society conferences, Nancy, January 17th, 2013. (slides - in French)

Invited talk at the Jacques Morgenstern Colloquium, Sophia-Antipolis, France, June 7th, 2012.

Collège de France 2011 Seminar at "Collège de France", Chaire of Martin Abadi, Paris, May 18th, 2011.

STACS 2011 Invited lecture at STACS 2011, Symposium on Theoretical Aspects of Computer Science, Dortmund, Germany, March 12th, 2011.

TOSCA 2011 Invited speaker at TOSCA 2011, Theory of Security and Applications, affiliated with ETAPS 2011, March 31st and April 1st, 2011.

FOSAD 2010, International School on Foundations of Security Analysis and Design, Bertinoro (Italy), September 5-12, 2010.

VMCAI'09, Conference on Verification, Model Checking, and Abstract Interpretation, January 18-20, 2009, Savannah, GA, USA (co-located with POPL 2009).

RTA'08, International Conference on Rewriting Techniques and Applications, July 15-17, 2008. Hagenberg, Austria.

TFIT'08, Fourth Taiwanese-French Conference on Information Technology (TFIT'08), Taipei, Taiwan, March 3-5, 2008.

WITS'07, 7th International Workshop on Issues in the Theory of Security, Braga, Portugal, Mars 24th, 2007. (co-located with ETAPS).

AVOCS'06, International Workshop on Automated Verification of Critical Systems, Nancy, France, Septembre 19th, 2006.

Information-MFCSIT'06, International Conference on Information and Irish Conference on the Mathematical Foundations of Computer Science and Information Technology, Cork, Irland, August 4th, 2006, Special Session on Formal Approaches to Security.

Publications

Most of the papers can be downloaded on my webpage :
https ://members.loria.fr/VCortier/files/Publications/

International Journals

[CDDK22] Véronique Cortier, Stéphanie Delaune, Jannik Dreier, and Élise Klein. Automatic generation of sources lemmas in Tamarin : towards automatic proofs of security protocols. *Journal of Computer Security*, 2022.

[CDS21] Véronique Cortier, Stéphanie Delaune, and Vaishnavi Sundararajan. A decidable class of security protocols for both reachability and equivalence properties. *Journal of Automated Reasoning*, 65 :479–520, April 2021.

[CCDD19] Rémy Chrétien, Véronique Cortier, Antoine Dallon, and Stéphanie Delaune. Typing messages for free in security protocols. *ACM Transactions on Computational Logic*, 21(1), October 2019.

[CW17] Véronique Cortier and Cyrille Wiedling. A formal analysis of the norwegian e-voting protocol. *Journal of Computer Security*, 25(15777) :21–57, 2017.

[CCD15c] Rémy Chrétien, Véronique Cortier, and Stéphanie Delaune. From security protocols to pushdown automata. *ACM Transactions on Computational Logic*, 17(3), November 2015.

[Cor15b] Véronique Cortier. Formal verification of e-voting : solutions and challenges. *3rd SigLog Newsletter, ACM Special Interest Group on Logic and Computation*, 2(1) :25–34, January 2015.

[CK14] Véronique Cortier and Steve Kremer. Formal models and techniques for analyzing security protocols : A tutorial. *Foundations and Trends in Programming Languages*, 1(3) :151–267, 2014.

[ACD14] Mathilde Arnaud, Véronique Cortier, and Stéphanie Delaune. Modeling and verifying ad hoc routing protocols. *Information and Computation*, 238(0) :30–67, 2014.

[CS14] Véronique Cortier and Graham Steel. A generic security API for symmetric key management on cryptographic devices. *Information and Computation*, 238 :208–232, 2014.

[CCD13a] Vincent Cheval, Véronique Cortier, and Stéphanie Delaune. Deciding equivalence-based properties using constraint solving. *Theoretical Computer Science*, 492 :1–39, 2013.

[CS13] Véronique Cortier and Ben Smyth. Attacking and fixing Helios : An analysis of ballot secrecy. *Journal of Computer Security*, 21(1) :89–148, 2013.

[BCD13] Mathieu Baudet, Véronique Cortier, and Stéphanie Delaune. YAPA : A generic tool for computing intruder knowledge. *ACM Transactions on Computational Logic*, 14, 2013.

[CD12] Véronique Cortier and Stéphanie Delaune. Decidability and combination results for two notions of knowledge in security protocols. *Journal of Automated Reasoning*, 48, 2012.

[BBC11] Mouhebeddine Berrima, Narjes Ben Rajeb, and Véronique Cortier. Deciding knowledge in security protocols under some e-voting theories. *Theoretical Informatics and Applications (RAIRO-ITA)*, 45 :269–299, 2011.

[CKW10] Véronique Cortier, Steve Kremer, and Bogdan Warinschi. A survey of symbolic methods in computational analysis of cryptographic systems. *Journal of Automated Reasoning*, 46(3-4) :225–259, April 2010.

[CCZ10] Hubert Comon-Lundh, Véronique Cortier, and Eugen Zălinescu. Deciding security properties for cryptographic protocols. application to key cycles. *ACM Transactions on Computational Logic*, 11(2), January 2010.

[BCK09] 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.

[CD09b] Véronique Cortier and Stéphanie Delaune. Safely composing security protocols. *Formal Methods in System Design*, 34(1) :1–36, February 2009.

[CRZ07] Véronique Cortier, Michael Rusinowitch, and Eugen Zalinescu. Relating two standard notions of secrecy. *Logical Methods in Computer Science*, 3(3), July 2007.

[AC06] Martin Abadi and Véronique Cortier. Deciding knowledge in security protocols under equational theories. *Theoretical Computer Science*, 387(1-2) :2–32, November 2006. **Top cited article 2005-2010 TCS paper award**.

[CGLN06] Véronique Cortier, Xavier Goaoc, Mira Lee, and Hyeon-Suk Na. A note on maximally repeated sub-patterns of a point set. *Discrete Mathematics*, 306(16) :1965–1968, August 2006.

[CDL06] Véronique Cortier, Stéphanie Delaune, and Pascal Lafourcade. A survey of algebraic properties used in cryptographic protocols. *Journal of Computer Security*, 14(1) :1–43, 2006.

[CC05] Hubert Comon and Véronique Cortier. Tree automata with one memory, set constraints and cryptographic protocols. *Theoretical Computer Science*, 331(1) :143–214, February 2005.

[CC04] Hubert Comon-Lundh and Véronique Cortier. Security properties : Two agents are sufficient. *Science of Computer Programming*, 50(1-3) :51–71, March 2004.

[Cor02a] Véronique Cortier. About the decision of reachability for register machines. *Theoretical Informatics and Applications*, 36(4) :341–358, Oct. - Dec. 2002.

National Journals

[Cor05] Véronique Cortier. Vérifier les protocoles cryptographiques. *Technique et Science Informatique, Hermes Science*, 24(1) :115–140, 2005.

Edited books

[CK11] Véronique Cortier and Steve Kremer, editors. *Formal Models and Techniques for Analyzing Security Protocols*, volume 5 of *Cryptology and Information Security Series*. IOS Press, 2011.

[CKOS09] Véronique Cortier, Claude Kirchner, Mitsuhiro Okada, and Hideki Sakurada, editors. *Formal to practical Security*, volume 5458 of *Lecture Notes in Computer Science*. Springer, springer edition, 2009.

Book chapters

[Cor06b] Véronique Cortier. *Cryptographie et codes secrets*, chapter Les protocoles cryptographiques, pages 106–113. Bibliothèque Tangente, POLE edition, 2006. Hors-série 26.

[Cor06e] Véronique Cortier. *Sur les chemins de la découverte*, chapter Sécuriser les réseaux, les protocoles cryptographiques, pages 107–118. Presses Universitaires de France, January 2006.

International Conferences

[CDGH24] Véronique Cortier, Alexandre Debant, Anselme Goestchmann, and Lucca Hirschi. Election eligibility with openid : Turning authentication into transferable proof of eligibility. In *33rd USENIX Security Symposium (Usenix'24)*, 2024.

[CGY24] Véronique Cortier, Pierrick Gaudry, and Quentin Yang. Is the jcj voting system really coercion-resistant ? In *37th IEEE Computer Security Foundations Symposium (CSF'24)*, Enschede, Netherlands, July 2024.

[CDM24] Véronique Cortier, Alexandre Debant, and Florian Moser. Code voting : when simplicity meets security. In *Esorics 2024 - 29th European Symposium on Research in Computer Security*, Bydgoszcz, Poland, 2024.

[CGGL24] Véronique Cortier, Pierrick Gaudry, Anselme Goetschmann, and Sophie Lemonnier. Belenios with cast-as-intended : towards a usable interface. In *EVote-ID 2024 - 9th International Joint Conference on Electronic Voting*, Terragona, Spain, 2024. Springer.

[BBC+24] Angèle Bossuat, Eloïse Brocas, Véronique Cortier, Pierrick Gaudry, Stéphane Glondu, and Nicolas Kovacs. Belenios : the Certification Campaign. In *SSTIC 2024 - Symposium sur la sécurité des technologies de l'information et des communications*, Rennes, France, June 2024.

[CDC23] Véronique Cortier, Alexandre Debant, and Vincent Cheval. Election verifiability with proverif. In *36th IEEE Computer Security Foundations Symposium (CSF'23)*, Dubrovnik, Croatia, July 2023.

[CGGR23] Véronique Cortier, Pierrick Gaudry, Stéphane Glondu, and Sylvain Ruhault. French 2022 legislatives elections : a verifiability experiment. In *The International Conference for Electronic Voting (E-Vote-ID 2023)*, Luxembourg City, Luxembourg, October 2023.

[CGG22] Véronique Cortier, Pierrick Gaudry, and Stéphane Glondu. Features and usage of Belenios in 2022. In *The International Conference for Electronic Voting (E-Vote-ID 2022)*, Bregenz / Hybrid, Austria, 2022.

[CGY22] Véronique Cortier, Pierrick Gaudry, and Quentin Yang. A toolbox for verifiable tally-hiding e-voting systems. In *ESORICS 2022 - 27th European Symposium on Research in Computer Security*, Copenhague, Denmark, 2022.

[BCC+22b] Mikaël Bougon, Hervé Chabanne, Véronique Cortier, Alexandre Debant, Emmanuelle Dottax, Jannik Dreier, Pierrick Gaudry, and Mathieu Turuani. Themis : an On-Site Voting System with Systematic Cast-as-intended Verification and Partial Accountability. In *25th ACM Conference on Computer and Communications Security (CCS'22)*, Los Angeles, United States, 2022. ACM.

[CDG22] Véronique Cortier, Alexandre Debant, and Pierrick Gaudry. A privacy attack on the Swiss Post e-voting system. In *Real World Crypto Symposium (RWC'22)*, Amsterdam, Netherlands, 2022. IACR.

[CDD22] Véronique Cortier, Antoine Dallon, and Stéphanie Delaune. A small bound on the number of sessions for security protocols. In *35th IEEE Computer Security Foundations Symposium (CSF'22)*, Haifa, Israel, August 2022.

[BCC22a] Bruno Blanchet, Vincent Cheval, and Véronique Cortier. Proverif with lemmas, induction, fast subsumption, and much more. In *Proceedings of the 42nd IEEE Symposium on Security and Privacy (S&P'22)*. IEEE Computer Society Press, 2022.

[CGY20] Véronique Cortier, Pierrick Gaudry, and Quentin Yang. How to fake zero-knowledge proofs, again. In *Fifth International Joint Conference on Electronic Voting (E-Vote-ID 2020)*, Bregenz / virtual, Austria, 2020.

[CLW20] Véronique Cortier, Joseph Lallemand, and Bogdan Warinschi. Fifty shades of ballot privacy : Privacy against a malicious board. In *33rd IEEE Computer Security Foundations Symposium (CSF'20)*, Boston / virtual, USA, June 2020. **CSF distinguished paper award**.

[CDD20] Véronique Cortier, Stéphanie Delaune, and Jannik Dreier. Automatic generation of sources lemmas in Tamarin : towards automatic proofs of security protocols. In *25th European Symposium on Research in Computer Security (ESORICS 2020)*, Guilford / virtual, United Kingdom, September 2020. **Esorics best paper award**.

[CGY20] Véronique Cortier, Pierrick Gaudry, and Quentin Yang. How to fake zero-knowledge proofs, again. In *Fifth International Joint Conference on Electronic Voting (E-Vote-ID 2020)*, Bregenz / virtual, Austria, 2020.

[CFL19] Véronique Cortier, Alicia Filipiak, and Joseph Lallemand. BeleniosVS : Secrecy and verifiability against a corrupted voting device. In *32nd IEEE Computer Security Foundations Symposium (CSF'19)*, Hoboken, USA, June 2019.

[CGG19] Véronique Cortier, Pierrick Gaudry, and Stéphane Glondu. *Belenios : A Simple Private and Verifiable Electronic Voting System*, pages 214–238. Springer International Publishing, 2019.

[CL18] Véronique Cortier and Joseph Lallemand. Voting : You can't have privacy without individual verifiability. In *25th ACM Conference on Computer and Communications Security (CCS'18)*, pages 53–66. ACM, 2018.

[CDD18] Véronique Cortier, Stéphanie Delaune, and Antoine Dallon. Efficiently deciding equivalence for standard primitives and phases. In *Proceedings of the 23rd European Symposium on Research in Computer Security (ESORICS'18)*, pages 491–511. LNCS, 2018.

[CDS$^+$18] Véronique Cortier, Constantin Catalin Dragan, Pierre-Yves Strub, Francois Dupressoir, and Bogdan Warinschi. Machine-checked proofs for electronic voting : privacy and verifiability for belenios. In *Proceedings of the 31st IEEE Computer Security Foundations Symposium (CSF'18)*, pages 298–312, 2018.

[CCT18] Vincent Cheval, Véronique Cortier, and Mathieu Turuani. A little more conversation, a little less action, a lot more satisfaction : Global states in proverif. In *Proceedings of the 31st IEEE Computer Security Foundations Symposium (CSF'18)*, pages 344–358, 2018.

[CGLM18] Véronique Cortier, Niklas Grimm, Joseph Lallemand, and Matteo Maffei. Equivalence properties by typing in cryptographic branching protocols. In *Proceedings of the 7th International Conference on Principles of Security and Trust (POST'18)*, pages 160–187, April 2018.

[CGT18] Véronique Cortier, David Galindo, and Mathieu Turuani. A formal analysis of the neuchâtel e-voting protocol. In *3rd IEEE European Symposium on Security and Privacy (EuroSP'18)*, pages 430–442, London, UK, April 2018.

[CGLM17] Véronique Cortier, Niklas Grimm, Joseph Lallemand, and Matteo Maffei. A type system for privacy properties. In *24th ACM Conference on Computer and Communications Security (CCS'17)*, pages 409–423, Dallas, USA, October 2017. ACM.

[CCW17] Vincent Cheval, Véronique Cortier, and Bogdan Warinschi. Secure composition of PKIs with public key protocols. In *Proceedings of the 30th IEEE Computer Security Foundations Symposium (CSF'17)*, pages 144 – 158. IEEE Computer Society Press, August 2017.

[CSD+17] Véronique Cortier, Benedikt Schmidt, Constantin Catalin Dragan, Pierre-Yves Strub, Francois Dupressoir, and Bogdan Warinschi. Machine-checked proofs of privacy for electronic voting protocols. In *Proceedings of the 37th IEEE Symposium on Security and Privacy (S&P'17)*, pages 993–1008. IEEE Computer Society Press, 2017.

[CFF+17] Véronique Cortier, Alicia Filipiak, Jan Florent, Said Gharout, and Jacques Traoré. Designing and proving an EMV-compliant payment protocol for mobile devices. In *2nd IEEE European Symposium on Security and Privacy (EuroSP'17)*, pages 467–480, 2017.

[CCFG16] Pyrros Chaidos, Véronique Cortier, Georg Fuchsbauer, and David Galindo. BeleniosRF : A non-interactive receipt-free electronic voting scheme. In *23rd ACM Conference on Computer and Communications Security (CCS'16)*, pages 1614–1625, Vienna, Austria, October 2016. ACM.

[ACK16] Myrto Arapinis, Véronique Cortier, and Steve Kremer. When are three voters enough for privacy properties ? In Ioannis Askoxylakis, Sotiris Ioannidis, Sokratis Katsikas, and Catherine Meadows, editors, *Proceedings of the 21st European Symposium on Research in Computer Security (ESORICS'16)*, Lecture Notes in Computer Science, pages 241–260, Heraklion, Crete, September 2016. Springer.

[CGK+16b] Véronique Cortier, David Galindo, Ralf Küsters, Johannes Müller, and Tomasz Truderung. Sok : Verifiability notions for e-voting protocols. In *Proceedings of the 36th IEEE Symposium on Security and Privacy (S&P'16)*, San Jose, CA, USA, May 2016. IEEE Computer Society Press.

[CDD16] Véronique Cortier, Antoine Dallon, and Stéphanie Delaune. Bounding the number of agents, for equivalence too. In Frank Piessens and Luca Viganó, editors, *Proceedings of the 5th International Conference on Principles of Security and Trust (POST'16)*, volume 9635 of *Lecture Notes in Computer Science*, pages 211–232, Eindhoven, The Netherlands, April 2016. Springer. **EASST best paper award of the ETAPS conference**.

[CClM15] Vincent Cheval, Véronique Cortier, and Eric le Morvan. Secure Refinements of Communication Channels. In Prahladh Harsha and G. Ramalingam, editors, *35th IARCS Annual Conference on Foundations of Software Technology and Theoretical Computer Science (FSTTCS 2015)*, volume 45 of *Leibniz International Proceedings in Informatics (LIPIcs)*, pages 575–589, Dagstuhl, Germany, 2015. Schloss Dagstuhl–Leibniz-Zentrum fuer Informatik.

[CCD15a] Rémy Chrétien, Véronique Cortier, and Stéphanie Delaune. Checking trace equivalence : How to get rid of nonces ? In *Proceedings of the 20th European Symposium on Research in Computer Security (ESORICS'15)*, Lecture Notes in Computer Science, Vienna, Austria, 2015. Springer.

[CCD15b] Rémy Chrétien, Véronique Cortier, and Stéphanie Delaune. Decidability of trace equivalence for protocols with nonces. In *Proceedings of the 28th IEEE Computer Security Foundations Symposium (CSF'15)*. IEEE Computer Society Press, July 2015.

[BCG+15a] David Bernhard, Veronique Cortier, David Galindo, Olivier Pereira, and Bogdan Warinschi. A comprehensive analysis of game-based ballot privacy definitions. In *Proceedings of the 36th IEEE Symposium on Security and Privacy (S&P'15)*, pages 499–516, San Jose, CA, USA, May 2015. IEEE Computer Society Press.

[CC15] Vincent Cheval and Véronique Cortier. Timing attacks in security protocols : symbolic framework and proof techniques. In *Proceedings of the 4th Conference on Principles of Security and Trust (POST'15)*, volume 9036 of *Lecture Notes in Computer Science*, pages 280–299, London, UK, April 2015. Springer.

[CEK+15a] Véronique Cortier, Fabienne Eigner, Steve Kremer, Matteo Maffei, and Cyrille Wiedling. Type-based verification of electronic voting protocols. In *Proceedings of the 4th Conference on Principles of Security and Trust (POST'15)*, volume 9036 of *Lecture Notes in Computer Science*, pages 303–323, London, UK, April 2015. Springer.

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[CGGI14] Véronique Cortier, David Galindo, Stéphane Glondu, and Malika Izabachene. Election verifiability for Helios under weaker trust assumptions. In *Proceedings of the 19th European Symposium on Research in Computer Security (ESORICS'14)*, volume 8713 of *LNCS*, pages 327–344, Wroclaw, Poland, September 2014. Springer.

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