

# Silvio Ranise

Department of Mathematics  
University of Trento  
Povo–Via Sommarive, 14, I–38100 Trento  
silvio.ranise@unitn.it  
<https://webapps.unitn.it/du/en/Persona/PER0041022>

Center for Cybersecurity  
Fondazione Bruno Kessler  
Povo–Via Sommarive 18, I–38100 Trento  
ranise@fbk.eu  
<https://cs.fbk.eu/>

## *Experience and Job History*

- Apr 2021—, **Director** of the Center for Cybersecurity, Fondazione Bruno Kessler, Trento
- Jul 2020—, **Full Professor** of Computer Science (INF 01/B1) in double appointment at the Department of Mathematics, University of Trento, and Fondazione Bruno Kessler
- Jan 2020—Dec 2020, **Head** of the Cyber-Security Research Area, Fondazione Bruno Kessler
- Jan 2017—Dec 2020, **Head** of the Security and Trust Research Unit, Fondazione Bruno Kessler
- Jan 14, 2020—Jan 14, 2029, Abilitazione Scientifica Nazionale a Professore Ordinario, Settore Concorsuale INF 01/B1
- Jan 29, 2014—Jan 29, 2023, Abilitazione Scientifica Nazionale a Professore Ordinario, Settore Concorsuale INF 01/B1
- May 2013—Jun 2020, **Senior Researcher** (R2), Fondazione Bruno Kessler (Trento, Italy), Security and Trust Research Unit [permanent position]
- April 2010—April 2013, **Senior Researcher** (R2), Fondazione Bruno Kessler (Trento, Italy), Security and Trust Research Unit [on-leave from INRIA permanent position, tenure track]
- May 2008—March 2010, **Research Associate**, Univ. degli Studi di Verona (Verona, Italy) in the context of the European Project AVANTSSAR [on-leave from INRIA permanent position]
- Jan 2006—April 2008, **INRIA Senior Researcher**, Laboratoire Lorrain de Recherche en Informatique et ses Applications (LORIA) (Nancy, France) [permanent position]
- Sep 2003—Dec 2005, **INRIA Researcher**, LORIA [permanent position]
- Sep 2002—Aug 2003, **INRIA Junior Researcher**, LORIA [tenure track]
- Mar 2002, **Qualification aux fonctions de Maître de Conférences**, Section 27 (Informatique)
- Aug 2001—Aug 2002, **Assistant Professor**, U. Henri Poincaré (Nancy, France) [temporary position]

## *Education*

- Jan 2002, **joint PhD in Computer Science Engineering**, U. di Genova and Henri Poincaré (Nancy, France)
- Dec 1997, **Laurea Ingegneria Informatica**, U. di Genova: 110/110 *magna cum laude*

## Research Interests

- Identity and Access Management Systems, Security of Cloud and Mobile Applications, Legal Compliance Checking for Data Protection (GDPR) and Payments (PSD2), IoT security, Risk Management in CyberSecurity
- Automated tools for the security analysis of complex infrastructures during both design and deployment that are capable of assisting humans in applying adequate mitigations
- Formal Specification, Verification, and Analysis of Access Control Policies
- Model checking of infinite state systems, Program Verification and Analysis
- Satisfiability Modulo Theories (SMT) solvers, Decision procedures, Automated Theorem Proving

## Awards

- Jun 2015, co-recipient of the Best Student Paper Award at the 29th IFIP WG11.3 Conference on Data and Application Security and Privacy (DBSeC'15)
- June 2014, runner-up for the Best Paper Award at the 19th ACM Symposium on Access Control Models and Technologies, SACMAT'14 [<http://www.sacmat.org/2014/about.php>]
- August 2010, co-recipient of the **Haifa Verification Conference (HVC) Award** for the *“pivotal and continuous role in building and promoting the Satisfiability Modulo Theories (SMT) community [...] Given the scope of the award, receiving it is a major compliment to the joint effort of this group and an act of recognition of the great impact that you and the SMT community in general achieved, both in the industry and in the academia”* [<https://www.research.ibm.com/haifa/conferences/hvc2010/award.shtml>]

## Mentoring and Supervision

- Member of the PhD Program Committee of the Dept. of Mathematics, U. of Trento [2021–]
- Member of the PhD Program Committee of the Dept. of Computer Science and Systems Engineering, U. of Genova [2016–2021]
- Member of the PhD Program Committee of the Dept. of Computer Science, U. of Verona [2011—2014]
- PhD students: 15
- Post-docs
  1. Calogero Zarba, April 2004-March 2005. Now he is software developer at Neodata Group, Catania, Italy.
  2. Clara Bertolissi, October 2011-September 2013. Now she holds a teaching and research position at Aix-Marseille University, France.
  3. Riccardo Traverso, January 2014-December 2016. Now he is software developer at PerVoice SpA, Trento, Italy.

## Service

- Head of the *Consorzio Interuniversitario Nazionale per l'Informatica (CINI)* node at FBK [2015—]
- Coordinator of *The Satisfiability Modulo Theories Library (SMT-Lib)* [2003—2009]
- Member of the IFIP WG 11.3 Working Group on Data and Applications Security and Privacy [2012—]
- Member of Steering Committees
  - *International Conference on Future Data and Security Engineering (FDSE)* [20016—]
  - *International Conference on Advanced Computing and Applications (ACOMP)* [2016—]
  - *Frontiers of Combining Systems (FroCoS) Symposium Series* [2015—]
  - *Satisfiability Modulo Theories (SMT) Workshop Series* [2011—2013]
  - *First-Order Theorem Proving (FTP) Workshop Series* [2005—2013]
  - *The Calculemus Project* [2002—2008]
- Editorial Board Membership
  - Associate Editor in *Frontiers in Computer and Network Security - Computer Security*
  - Review Editor in *Frontiers in Communications and Networks - Security, Privacy and Authentication*
- Member/Chair of Program Committees
  - International Workshop on Cyber-Physical Security for Critical Infrastructures Protection (CSP4CIP) [2024 (General Chair), 2023 (General Chair), 2022 (General Chair), 2021 (General Chair), 2020 (General Chair)]
  - International Conference on Information System Security and Privacy (ICISSP) [2024,2023,2022,2021,2020]
  - International Conference on Information System Security (ICISS) [2024,2021,2020,2019]
  - International Workshop on Emerging Technologies for Authorization and Authentication (ETAA) [2022,2021,2020,2019]
  - International Workshop on Security for Financial Critical Infrastructures and Services (FINSEC) [2019(General Chair)]
  - International Workshop on Security and High Performance Computing Systems (SHPCS) [2019,2018]
  - OAuth Security Workshop [2018(General Chair)]
  - International Conference on Emerging Security Information, Systems and Technologies (SECUREWARE) [2019,2018,2017]
  - 15th International Conference on Privacy, Security, and Trust (PST) [2019,2018,2017]
  - 10th International Symposium on Foundations and Practice of Security (SACMAT) [2020,2019,2017]
  - International Conference on Future Data and Security Engineering [2017 (co-chair of the security track)]
  - International Symposium “From Data to Models and Back (DataMod)” [2017]
  - Italian Conference on Cyber Security (ITASEC) [2023,2022,2021,2020,2019,2018,2017]
  - Int. Conference on Tools & Methods of Program Analysis (TMPA) [2019,2017]
  - International Joint Conference on Artificial Intelligence (IJCAI) [2020,2017,2016]
  - 13th IEEE International Conference on Advanced and Trusted Computing (ATC) [2021,2019,2018,2017,2016]

- Second international conference on Intelligent Information Processing, Security and Advanced Communication (IPAC) [2016]
- 10th International Conference on Information Security Theory and Practice (WISTP) [2016]
- International Conference on Formal Engineering Methods (ICFEM) [2024,2024,2022,2021,2020,2019,2018,2017,2016, 2015]
- Annual IFIP WG 11.3 Working Conference on Data and Applications Security and Privacy (DBSeC) [2024,2023,2022,2021,2020,2019,2018,2017,2016 (co-chair), 2015]
- ACM Conference on Data and Application Security and Privacy (ACM CODASPY) [2024,2023,2022]
- ACM Conference on Data and Application Security and Privacy (ACM CODASPY), Poster session [2016, 2015]
- Advanced Intrusion Detection and Prevention Workshop (AIDP) [2014]
- International Conference on Security and Cryptography (Secrypt) [2024,2023,2022,2021,2020,2019,2018,2017,2016,2015,2014,2013]
- 28-esimo Convegno Italiano di Logica Computazionale (CILC) [2013]
- 2nd International Symposium on Privacy and Security in Cloud and Social Networks (PriSecCSN) [2013]
- International Workshop on Data Privacy Management (DPM) [2022,2021,2020,2019,2018,2017,2016, 2015, 2014, 2013]
- 28th Symposium On Applied Computing, Enterprise Engineering Track (SAC EE) [2013]
- International Symposium on Foundations and Practice of Security (FPS) [2023,2022,2021,2020,2019,2018,2017,2016, 2015, 2014, 2013, 2012]
- 8th International Conference on Security and Privacy in Communication Networks (SecureComm) [2012]
- International Workshop on Security and Trust Management (STM) [2018,2017, 2016, 2015, 2014, 2013 (co-chair), 2012]
- Workshop on Security in Business Processes (SBP) [2014, 2013, 2012]
- Automated Reasoning for Enterprise Information Systems (AREIS) [2012]
- WooPS: Int'l Workshop on Petri Net-based Security (WooPS) [2012]
- Int. Symposium on Information and Communication Technology (SoICT) [2013, 2012, 2011]
- BPM Workshop on Workflow Security Audit and Certification (Wf SAC) [2011]
- International Workshop on First-Order Theorem Proving (FTP) [2011, 2009, 2007]
- Conference on Intelligent Computer Mathematics (CICM, Calculemus Track) [2011]
- 9th Int. Workshop on Automated Verification of Critical Systems [2010, 2009]
- Practical Aspects of Automated Reasoning [2010, 2008]
- Int. Joint Conference on Automated Reasoning (IJCAR) [2018,2008]
- International Symposium on Frontiers of Combining Systems [2021,2019,2017, 2015 (co-chair), 2013, 2011, 2009, 2007]
- International Workshop on Satisfiability Modulo Theories (SMT) [2013, 2009, 2008, 2007]
- Disproving—Non-Theorems, Non-Validity, Non-Provability [2007]
- Automated Deduction: Decidability, Complexity, Tractability (ADDCT) [2014, 2013, 2009, 2008, 2007]
- Empirically Successful Computerized Reasoning [2005]
- Pragmatics of Decision Procedures in Automated Reasoning [2006, 2005, 2004, 2003]
- Calculemus [2006, 2005]
- Empirically Successful Classical Automated Reasoning [2005]

## Teaching

- Advanced Methods for Cryptographic Methods (2023/2024): Master level course, U. of Trento (Trento, Italy)
- Laboratorio di Programmazione (2023/2024,2022/2023,2021/2022,2020/2021): Bachelor level course, U. of Trento (Trento, Italy)
- Applied Cryptography (2021/2022,2020/2021,2019/2020): Master level course, U. of Trento (Trento, Italy) [first edition taught with Massimiliano Sala]
- Introduction to Computer and Network Security (2023/2024,2022/2023,2021/2022,2020/2021, 2019/2020, 2018/2019, 2017/2018): Bachelor and Master level course, U. of Trento (Trento, Italy)
- Cybersecurity 1 in the teaching module “Connectivity and Security” of the Master “Autonomous Driving and enABling Technologies Master (ADBoT)” (2019/2020): Seminar (8h), U. of Trento, U. of Modena & Reggio-Emilia, and Fondazione Bruno Kessler
- Digital Identity: enrollment, authentication, and all that (2021/2022, 2020/2021): Phd course, U. di Trento and U. di Genova (Italy)
- Security Analysis Techniques based on SMT solving (2016/2017): Phd course, U. di Genova (Genova, Italy)
- Security Analysis Techniques based on SMT solving (2015/2016): Phd course, U. di Trento (Trento, Italy)
- Seminar “Access Control: Models and Analysis” (2011/2012), École Central de Marseille (Marseille, France)
- Fundamentals of Software Engineering (2011/2012): Master in Game Programming, U. di Verona (Verona, Italy)
- Infinite state model-checking and decision procedures (2008/2009): Phd course, U. di Milano (Milano, Italy)
- Metodi formali per la verifica dei protocolli (2006/2007, 2005/2006, 2004/2005, 2003/2004): Laurea course, U. di Milano (Milano, Italy)
- Procédures de décision et vérification de programmes (2007/2008, 2005/2006): Master en Recherche (Master course), U. H. Poincaré (Nancy, France)
- Techniques for Building, Combining, and Integrating Decision Procedures (2004/2005): PhD course, U. di Trento (Trento, Italy)
- Teaching assistant C++ programming lab (2000/2001, 1999/2000, 1998/1999): Laurea degree, U. di Genova (Genova, Italy)

## Systems and Laboratories

- IT/OT LABORATORY (<https://sites.google.com/fbk.eu/itotlab>): An open and flexible cybersecurity training laboratory in IT/OT infrastructures. This laboratory has been used as the basis for three editions of the “Prom Camp,” a one week full immersion for high school students held at the Prototyping Mechatronics Facility of Rovereto, Trento, organized by Fondazione Bruno Kessler and Trentino Sviluppo. [<https://fbkjunior.fbk.eu/projects/detail/prom-camp/>]

- MICRO-ID-GYM (<https://st.fbk.eu/tools/Micro-Id-Gym>): Security testing of identity management deployments
- MIDASSISTANT (<https://sites.google.com/fbk.eu/midassistant>): mobile Identity management Assistant
- MQTTSA (<https://sites.google.com/fbk.eu/mqttsa>): Security testing of MQTT brokers
- TLSASSISTANT (<https://st.fbk.eu/tools/TLSAssistant/>): Security and compliance verification of TLS deployments.
- CRYPTOAC (<https://st.fbk.eu/tools/CryptoAC>): Cryptographic Access Control Enforcement.
- ASASP (<http://st.fbk.eu/technologies/asasp>): Automated Symbolic Analysis of Security Policies
- MCMT (<http://users.mat.unimi.it/users/ghilardi/mcmt/>): Model Checker Modulo Theories
- HARVEY: a Satisfiability Modulo Theory solver (no more maintained)
- RDL: a first-order theorem prover with theories (no more maintained)

### *Involvement in projects as Principal Investigator*

- March 2021–February 2022, Scientific leader of the industrial project Cyber Threat Intelligence program for Allitude-Cassa Centrale Banca.
- March 2021–February 2024, Scientific leader of the Digital Identity Management activities in the Futuro & Conoscenza joint company between FBK and Poligrafico e Zecca dello Stato (IPZS)
- Aug 2019- Jul 2021, Scientific leader of the project “Distributed Ledger Technology CherryChain” of the Legge 6 (Legge provinciale sugli incentivi alle imprese) project
- Feb 2019-jan 2022, Scientific leader for FBK of the H2020 project “FRICoRE: Fundamental Rights in Courts and Regulation”
- Jan 2019-Dec 2019, Scientific leader for FBK of the Innovation Action “Security Tools for App Development — STAnD 2” EIT Digital grant in the Digital Infrastructure Action Line
- Jan 2019-Dec 2019, Scientific leader for FBK of the Innovation Action “Teîchos: Technical Environment for Intelligent Cyber Operational Security” EIT Digital grant in the Digital Finance Infrastructure Action Line
- May 2018-April 2021, Scientific Leader for FBK of the H2020 project “FINSEC: Integrated Framework for Predictive and Collaborative Security of Financial Infrastructures”
- Jan 2018-Dec 2018, Coordinator of the Innovation Action “Security Tools for App Development — STAnD.” EIT Digital grant in the Digital Infrastructure Action Line
- Jan 2018-Dec 2018, Task leader of the Innovation Action “DCoT: Distributed Chain of Custody.” EIT Digital grant in the Digital Finance Action Line
- Jul 2017- Dec 2020, Scientific leader of the Digimat joint laboratory with Poligrafico e Zecca dello Stato (IPZS)
- Aug 2017-Mar 2019, Scientific leader of the project “Securing the CAN Automotive Bus System,” joint project with Centro Ricerche Fiat.

- Nov 2017-Jun 2019, Scientific leader of the “Modeling of a Distributed Ledger Solution for Payments,” joint project with Paros s.r.l.
- Jul 2013-Mar 2015, Principal Investigator of the Research Unit at Fondazione Bruno Kessler: Formal specification of security model for the High Assurance Automated Guard, Technical Cooperation Arrangement No 2012:02 for NATO-NCI Agency Project SPW008418.
- Sep 2005—Dec 2008, Principal Investigator of the Research Unit at INRIA-Nancy, France: ARROWS-Automated Reasoning on Pointer Manipulating Programs, Action Concertée Incitative “Sécurité et Informatique,” Ministère délégué à la Recherche et aux Nouvelles Technologies, France.
- Sep 2003—Jan 2007, Principal Investigator of the Research Unit at INRIA-Nancy, France: GECCOO-Generation of Certified Code for Object Oriented Applications, Action Concertée Incitative “Sécurité et Informatique,” Ministère délégué à la Recherche et aux Nouvelles Technologies, France.

### *Involvement in projects in other roles*

- Mar 2013-Mar 2017, Executive officer and supervisor of one PhD student at Fondazione Bruno Kessler: SECENTIS-A European Industrial Doctorate on Security and Trust of Next Generation Enterprise Information Systems, European Union grant 317387 under the FP7-PEOPLE-2012-ITN. [<http://www.secentis.eu/>]
- Oct 2012-Sep 2014, Scientific supervisor of one fellow at Fondazione Bruno Kessler: RESTATE-Regional innovation strategy relies on researchers’ mobility, Marie Curie Action under the People of FP7 (COFUND) to co-funds regional, national and international fellowship programmes for research training and career development [<https://cofund.fbk.eu/>]
- Nov 2010-Nov 2011, Security expert for the internal FBK project Cartella Clinica del Cittadino (TreC)—Design and analysis of the authorization module.
- May 2008—March 2010, Senior researcher in the Research Unit of the Department of Computer Science at Univ. degli Studi di Verona (Verona, Italy): AVANTSSAR-Automated Validation of Trust and Security of Service-oriented Architectures, STREP project number 216471, funded by the EU in the context of the 7th Framework Programme, THEME ICT-1-1.4 - Secure, dependable and trusted Infrastructures. [<http://www.di.univr.it/?ent=progetto&id=2048&lang=en>]

### *Visits*

- Jun 2012, Invited Professor in the group of Prof. Denis Lugiez at École Centrale de Marseille (Marseille, France)
- Jul 2000-Jun 2001, group of Dr. C. Kirchner at LORIA (Nancy, France)
- Jan-Mar 2000, group of Prof. J. Siekmann at U. of Saarland (Saarbruecken, Germany)
- Jul-Aug 1998, group of Prof. L C Paulson of the Computer Laboratory, Cambridge University (Cambridge, England, UK)

### *Languages*

- English: fluent. French: fluent. Italian: mother tongue. Spanish: basic.

## Invited talks

- *“In Praise of Laziness or Use SMT instead of coding search algorithms”* at the 3rd International Conference on Engineering, Technology, and Innovative Researches, Universitas Jenderal Soedirman, Central Java, Indonesia, September 1, 2021 (virtual event).
- *“The Yin and Yang of Digital Identity and AI for Minorities: a Technological Perspective”* at the 11th Annual Summer School, European Center for Minority Issues (ECMI) and Coppieters Foundation, Flensburg, Germany, August 26, 2021 (virtual event).
- *“Machine Learning and Public Administration: the need for reconciling transparency and efficiency”* at the final Conference of the project BeSec—Boosting European Security Law and Policies, University of Siena, Italy, June 20, 2020 (virtual event).
- *“Cyber security and compliance in the fintech and banking sector”* at the Conference on Security and Money Flows in the European Union, Banca d’Italia, Rome, Italy, October 24, 2019.
- *“Identity for Mobile Applications: at the Crossroad of the Digital and Physical Worlds”* at the 3rd International Conference ISACA Lisbon Chapter, Lisbon, Portugal, November 23, 2018.
- *“Parameterized Verification goes Safety Analysis of Access Control Policies”* at the First Workshop on Parameterized Verification—A Satellite Event of Concur 2014, Rome, Italy, September 6, 2014.
- *“Design and Implementation of the NATO High Assurance Attribute-Based Access Control Guard”* at the NATO Chief Information Officers’ Conference, NATO Headquarters, Brussels, Belgium, November 20, 2013.
- *“Satisfiability Solving for Program Verification: towards the Efficient Combination of Automated Theorem Provers and Satisfiability Modulo Theory Tools”* at the IJCAR’06 Workshop DISPROVING: Non-Theorems, Non-Validity, Non-Provability, pages 49-58, Seattle, WA, USA, August 2006.

## Tutorials

- IFIP Summer School on Security and Privacy (2018): Tutorial on *“Design and Security Assessment of Usable Multi-Factor Authentication and Single Sign-On Solutions for Mobile Applications”*
- Italian Conference on Cybersecurity (ITASEC’18): Tutorial on *“Secure and Usable Mobile Identity Management Solutions: a Methodology for their Design and Assessment”*
- 23rd International Conference on Automated Deduction (CADE’11): Tutorial on *“Model Checking Modulo Theories: Theory and Practice”*
- International Conference on Theoretical Aspects of Computing (ICTAC’06): Tutorial on *“Decision Procedures for the formal analysis of software”*
- Software Engineering and Formal Methods (SEFM’05): Tutorial on *“Building, Combining, and Integrating Decision Procedures for Software Verification”*

## Evaluation of research projects

- Dec 2018-Mar 2019: Independent Expert appointed by the Netherlands Organisation for Scientific Research (NWO) to evaluate a grant proposal of the NWA-ORC program in the field of Cybersecurity

- Jun 2017-Jul 2017: Independent Expert appointed by Université Grenoble Alpes (France) to evaluate a grant proposal of the Cross Disciplinary call of the “Initiative of Excellence: Université Grenoble Alpes” in the field of Cybersecurity
- Jun 2012-Dec 2012: Independent Expert appointed by the assessment panel of the Netherlands Organisation for Scientific Research (NWO) to evaluate grant proposals of the Free Competition program (supporting high-risk innovative and original research) in the field of Computer Science

## Publications

### Editorship

14. Sokratis K. Katsikas, Habtamu Abie, Silvio Ranise, Luca Verderame, Enrico Cambiaso, Rita Maria Ugarelli, Isabel Praça, Wenjuan Li, Weizhi Meng, Steven Furnell, Basel Katt, Sandeep Pirbhulal, Ankur Shukla, Michele Ianni, Mila Dalla Preda, Kim-Kwang Raymond Choo, Miguel Pupo Correia, Abhishta Abhishta, Giovanni Sileno, Mina Alishahi, Harsha K. Kalutarage, Naoto Yanai. *Computer Security. ESORICS 2023 International Workshops - CPS4CIP, ADIoT, SecAssure, WASP, TAURIN, PriST-AI, and SECAI, The Hague, The Netherlands, September 25-29, 2023, Revised Selected Papers, Part II. Lecture Notes in Computer Science 14399, Springer 2024.*
13. Silvio Ranise, Roberto Carbone, Daniel Takabi. *Proceedings of the 28th ACM Symposium on Access Control Models and Technologies, SACMAT 2023, Trento, Italy, June 7-9, 2023. ACM 2023.*
12. Sokratis K. Katsikas, Frédéric Cuppens, Christos Kalloniatis, John Mylopoulos, Frank Pallas, Jörg Pohle, M. Angela Sasse, Habtamu Abie, Silvio Ranise, Luca Verderame, Enrico Cambiaso, Jorge Maestre Vidal, Marco Antonio Sotelo Monge, Massimiliano Albanese, Basel Katt, Sandeep Pirbhulal, Ankur Shukla. *Computer Security. ESORICS 2022 International Workshops - CyberICPS 2022, SECPRE 2022, SPOSE 2022, CPS4CIP 2022, CDT&SECOMANE 2022, EIS 2022, and SecAssure 2022, Copenhagen, Denmark, September 26-30, 2022, Revised Selected Papers. Lecture Notes in Computer Science 13785, Springer 2023.*
11. Sokratis K. Katsikas, Costas Lambrinoudakis, Nora Cuppens, John Mylopoulos, Christos Kalloniatis, Weizhi Meng, Steven Furnell, Frank Pallas, Jörg Pohle, M. Angela Sasse, Habtamu Abie, Silvio Ranise, Luca Verderame, Enrico Cambiaso, Jorge Maestre Vidal, Marco Antonio Sotelo Monge, editors. *Computer Security. ESORICS 2021 International Workshops - CyberICPS, SECPRE, ADIoT, SPOSE, CPS4CIP, and CDT&SECOMANE, Darmstadt, Germany, October 4-8, 2021, Revised Selected Papers. Lecture Notes in Computer Science 13106, Springer 2022.*
10. Habtamu Abie, Silvio Ranise, Luca Verderame, Enrico Cambiaso, Rita Maria Ugarelli, Gabriele Giunta, Isabel Praça, and Federica Battisti, editors. *Cyber-Physical Security for Critical Infrastructures Protection - First International Workshop, CPS4CIP 2020, Guildford, UK, September 18, 2020, Revised Selected Papers. Lecture Notes in Computer Science 12618, Springer 2021.*
9. A. P. Fournaris, M. Athanatos, K. Lampropoulos, S. Ioannidis, G. Hatzivasilis, E. Damiani, H. Abie, S. Ranise, L. Verderame, A. Siena, J. García-Alfaro. *Computer Security - ESORICS 2019 International Workshops, IOsec, MSTEC, and FINSEC, Revised Selected Papers, volume 11981 of Lecture Notes in Computer Science. Springer, 2020.*
8. Silvio Ranise and Vipin Swarup, editors. *30th Annual IFIP WG 11.3 Conference, DBSec 2016, Trento, Italy, July 18-20, 2016. Proceedings, volume 9766 of Lecture Notes in Computer Science. Springer, 2016.*
7. Carsten Lutz and Silvio Ranise, editors. *Frontiers of Combining Systems - 10th International Symposium, FroCoS 2015, Wroclow, Poland, September 19-24, 2015. Proceedings, volume 9322 of Lecture Notes in Computer Science. Springer, 2015.*
6. Rafael Accorsi and Silvio Ranise, editors. *Security and Trust Management - 9th International Workshop, STM 2013, Egham, UK, September 12-13, 2013. Proceedings, volume 8203 of Lecture Notes in Computer Science. Springer, 2013.*
5. Silvio Ranise and Ullrich Hustadt, editors. *Special Issue on First-Order Theorem Proving. Ann. Math. Artif. Intell., 55(1-2):1-2, 2009.*

4. Anna Bigatti and Silvio Ranise, editors. Selected papers from the 13th Symposium on Symbolic Computation and Mechanized Reasoning (Calculemus'06). *Electr. Notes Theor. Comput. Sci.*, 2006.
3. Wolfgang Ahrendt, Peter Baumgartner, Hans de Nivelle, Silvio Ranise, and Cesare Tinelli, editors. Selected Papers from the Workshops on Disproving (Disproving 2004) and the Second International Workshop on Pragmatics of Decision Procedures (PDPAR 2004). *Electr. Notes Theor. Comput. Sci.*, 125(3):1–2, 2005.
2. S. Ranise and C. Tinelli, editors. Pragmatics of Decision Procedures in Automated Reasoning (PDPAR'04), July 2004. Workshop affiliated to the 2nd International Joint Conference on Automated Reasoning (IJCAR'04).
1. S. Ranise and C. Tinelli, editors. Pragmatics of Decision Procedures in Automated Reasoning (PDPAR'03), July 2003. Workshop affiliated to the 19th Conference on Automated Deduction (CADE-19).

### Journals

43. Andrea Flamini, Giada Sciarretta, Mario Scuro, Amir Sharif, Alessandro Tomasi, Silvio Ranise. On cryptographic mechanisms for the selective disclosure of verifiable credentials. *J. Inf. Secur. Appl.* 83: 103789 (2024).
42. Marco Pernpruner, Roberto Carbone, Giada Sciarretta, Silvio Ranise. An Automated Multi-Layered Methodology to Assist the Secure and Risk-Aware Design of Multi-Factor Authentication Protocols. *IEEE Trans. Dependable Secur. Comput.* 21(4): 1935-1950 (2024).
41. Majid Mollaefar and Silvio Ranise. Identifying and quantifying trade-offs in multi-stakeholder risk evaluation with applications to the data protection impact assessment of the GDPR. *Comput. Secur.* 129: 103206 (2023).
40. T. Ahmad, U. Morelli, S. Ranise, and Nicola Zannone. Extending access control in AWS IoT through event-driven functions: an experimental evaluation using a smart lock system. *Int. J. Inf. Sec.* 21(2): 379-408 (2022).
39. A. Sharif, R. Carbone, G. Sciarretta, and S. Ranise. Best current practices for OAuth/OIDC Native Apps: A study of their adoption in popular providers and top-ranked Android clients. *J. Inf. Secur. Appl.* 65: 103097 (2022).
38. S. Manfredi, M. Ceccato, G. Sciarretta, S. Ranise. Empirical Validation on the Usability of Security Reports for Patching TLS Misconfigurations: User- and Case-Studies on Actionable Mitigations. *J. Wirel. Mob. Networks Ubiquitous Comput. Dependable Appl.* 13(1): 56-86 (2022).
37. S. Berlato, R. Carbone, A. J Lee, and S. Ranise. Formal Modelling and Automated Trade-Off Analysis of Enforcement Architectures for Cryptographic Access Control in the Cloud. *ACM Transactions on Privacy and Security (TOPS)* 25(1): 2:1-2:37 (2022).
36. Stefano Berlato; Marco Centenaro; Silvio Ranise. Smart Card-Based Identity Management Protocols for V2V and V2I Communications in CCAM: A Systematic Literature Review. *IEEE Transactions on Intelligent Transportation Systems* (2021) doi: 10.1109/TITS.2021.3118721.
35. M. Centenaro, S. Berlato, R. Carbone, G. Burzio, G. Faranda Cordella, S. Ranise, R. Riggio. Safety-Related Cooperative, Connected, and Automated Mobility Services: Interplay Between Functional and Security Requirements. *IEEE Vehicular Technology Magazine (VTM)* 16(4): 78-88 (2021).

34. G. Abbiati, S. Ranise, A. Schizzerotto, and A. Siena. Merging Datasets of CyberSecurity Incidents for Fun and Insight. *Frontiers Big Data* 3: 521132 (2020). Available at <https://doi.org/10.3389/fdata.2020.521132>
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