

Curriculum Vitae et Studiorum

Nicola Zannone

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Personal Information

Name and Surname: Nicola Zannone

Date and place of birth: 19 June 1974, Verona, Italy

Citizenship and other info: Italian, unmarried status

Military Service: from 21/11/97 to 10/9/98

Education: Ph.D. in Computer Science at the University of Trento

Current Position: Post-doc in the Security group at the Eindhoven University of Technology

Professional Interests: Computer Security, Requirements Engineering, and Formal Methods

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1 Education

Mar.07 Ph.D. in Computer Science at the University of Trento (advisor Prof. Fabio Massacci, co-advisor Prof. John Mylopoulos).

Mar.03 Laurea (Bachelor+Master) in Computer Science at the University of Verona with final marks 104/110 (supervisor Prof. Roberto Segala).

Jul.94 High School in Science and Classics with final marks 44/60 in Verona.

Attended various international schools such as the “International Summer School on Information and System Security” (ISS-2004), “International School on Foundations of Security Analysis and Design” (FOSAD-2004).

2 Professional Abilitations and Membership

Mar.12 University Teaching Qualification (BKO) at Eindhoven University of Technology.

3 Activities

Nov.08-now Post-doc in the Security group at the Eindhoven University of Technology.

Sept.07-Oct.08 Post-doc at the Department of Computer Science, University of Toronto (funded by the Canada’s NSERC Hyperion project).

Jun.06-Sept.06 Visiting student at the IBM Zurich Research Laboratory, Rüschlikon, Switzerland (Dr. Günter Karjoth).

Jun.06-Sept.07 Young Researcher at Consorzio Interuniversitario Nazionale per l’Informatica (funded by the FIRB programme of MIUR under the RBNE05BFRK TOCAI.IT project).

Jan.05-Aug.05 Visiting student at the Center for Secure Information Systems (CSIS), George Mason University, Fairfax, VA (Prof. Sushil Jajodia).

Nov.03-Oct.06 Ph.D. student at the Department of Information and Communication Technology, University of Trento (Prof. John Mylopoulos and Prof. Fabio Massacci)

Jul.03-Nov.03 Research assistant at the Department of Information and Communication Technology, University of Trento (funded by the FIRB programme of MIUR under the RBNE0195K5 ASTRO Project).

Jan.02-Jun.02 Study period of six months at the Department of Computer Science, Queen Mary, University of London, UK, as a Master student under ERASMUS Programme.

4 Grants, Awards and Other Fellowships

Nov.08-now A Post-doc grant at the Security group at the Eindhoven University of Technology.

Sept.07-Oct.08 A Post-doc grant at the Department of Computer Science, University of Toronto (funded by the Canada’s NSERC Hyperion project).

2006-2007 IBM Ph.D. Fellowship Award.

Jul.06-Sept.06 An internship grant at the IBM Zurich Research Laboratory, Rüschlikon, Switzerland.

Jun.06-Sept.07 A grant for young researcher at Consorzio Interuniversitario Nazionale per l’Informatica (funded by the FIRB programme of MIUR under the RBNE05BFRK TOCAI.IT project).

Jan.05-Aug.05 SEOR grant for Wage Researcher (WG6339-00) at the Center for Secure Information Systems (CSIS), George Mason University, Fairfax, VA.

Nov.03-Oct.06 PhD research grant at the Department of Information and Communication Technology, University of Trento (XIX cycle).

Jan.02-Jun.02 Erasmus grant offered by the University of Verona for completing my Master Thesis at the Department of Computer Science, Queen Mary, University of London, UK.

5 National and international research projects

- WP leader in the THeCS project funded by COMMIT (Trusted Healthcare Services). Coordinator: Milan Petković.
- Participating in the uCAN project funded by HTAS (universal Controller Area Network).
- Participating in the MobileIDM project funded by STW/Sentinels (Identity Management on Mobile Devices). Coordinator: Sandro Etalle
- Participating in the POSEIDON project funded by BSIK under project nr. 3021 (System Evolvability and Reliability of Systems of Systems).
- Participating in the EU FP7-IP-IST-216287 project TAS3 (Trusted Architecture for Securely Shared Services).
- Participated in the Canada's NSERC Hyperion project (Data management support for dynamic peer-to-peer data sharing applications).
- Participated in the MIUR FIRB RBNE05BFRK project TOCAL.IT (Knowledge-oriented technologies for enterprise aggregation in Internet). Coordinator: Maurizio Lenzerini.
- Participated in the EU FP6-IP-IST-027587 project SERENITY (System Engineering for Security & Dependability). Coordinator: Domenico Presenza.
- Participated in the EU FP6-IP-IST-016004 project SENSORIA (Software Engineering for Service-Oriented Overlay Computers). Coordinator: Martin Wirsing.
- Participated in the PAT project MOSTRO (MODelling Security and Trust Relationships within Organizations). Coordinator: Nicola Guarino
- Participated in the MIUR FIRB RBNE0195K5 project ASTRO (Knowledge Level Software Engineering). Coordinator: Paolo Traverso
- Participated in the EU IST-FET-2001-37004 project WASP (Working Group on Answer Set Programming).

6 Organization of Scientific Activities

2013

Program committee member 8th DADS Track of the 28th ACM Symposium on Applied Computing, March 18-22, 2013, Coimbra, Portugal.

2012

Program committee member 9th VLDB Workshop on Secure Data Management (SDM 2012), August 27, 2012, Istanbul, Turkey.

Program committee member 5th International Symposium on Foundations & Practice of Security (FPS 2012), October 25-26, 2012, Montreal, Canada.

Program committee member 7th International Conference on Availability, Reliability and Security (ARES 2012), August 20-24, 2012, Prague, Czech Republics.

Program committee member 11th IEEE International Conference on Trust, Security and

Privacy in Computing and Communications (TrustCom 2012), June 25-27, 2012, Liverpool, UK.

Program committee member International Workshop on Security Measurements and Metrics (MetriSec 2012), June, 2012, Lund, Sweden.

Publicity Co-Chair 19th ACM Conference on Computer and Communications Security (CCS 2012), October 16-18, 2012, Raleigh, NC, USA.

2011

Program committee member 10th IEEE International Conference on Trust, Security and Privacy in Computing and Communications (TrustCom 2011), November 16-18, 2011, Changsha, China.

Program committee member 6th International Conference on Availability, Reliability and Security (ARES 2011), August 22-26, 2006, Vienna, Austria.

Program committee member International Conference on Security and Cryptography (SECRYPT 2011), July 18-21, 2011, Seville, Spain.

Program committee member 5th IEEE International Conference on Secure Software Integration and Reliability Improvement (SSIRI 2011), June 27-29, 2011, Jeju Island, Korea.

Program committee member 4th International Conference on Communication Theory, Reliability, and Quality of Service (CTRQ 2011), April 17-22, 2011, Budapest, Hungary.

Program committee member 6th International Workshop on Data Privacy Management (DPM 2011), September 15-16, 2011, Leuven, Belgium.

Program committee member BPM Workshop on Workflow Security Audit and Certification (WfSAC 2011), August 29, 2011, Clermont-Ferrand, France.

Program committee member International Workshop on Security Measurements and Metrics (MetriSec 2011), September 21, 2011, Banff, Alberta, Canada.

Program committee member 4th Canada-France MITACS Workshop on Foundations & Practice of Security (FPS 2011), May 12-13, 2011, Paris, France.

Publication chair International Symposium on Engineering Secure Software and Systems (ESSoS 2011), February 9-10, 2010, Madrid, Spain.

2010

Program committee member 3rd International Conference on Communication Theory, Reliability, and Quality of Service (CTRQ-2010), June 13-19, 2010, Athens, Greece.

Program committee member 5th International Conference on Availability, Reliability and Security (ARES 2010), February 15-18, 2010, Krakow, Poland.

Program committee member 4th Workshop on Combining Context with Trust, Security, and Privacy (CAT 2010), 23-24 August, 2010, Nice, France.

Program committee member 5th International Workshop on Data Privacy Management (DPM 2010), 23 September, 2010, Athens, Greece.

Program committee member International Workshop on Security Measurements and Metrics (MetriSec 2010), September 15, 2010, Bolzano-Bozen, Italy.

Publication chair International Symposium on Engineering Secure Software and Systems (ESSoS 2010), February 3-4, 2010, Pisa, Italy.

2009

Program committee member 12th International Conference on Network-Based Information Systems (NBIS-2009), August 19-21, 2009, Indianapolis, USA.

Program committee member International Conference on Security and Cryptography (SECRYPT-2009), July 7-10, 2009, Milan, Italy.

Program committee member 3rd International Conference on Network and System Security (NSS 2009), October 19-21, 2009, Gold Coast, Australia.

Program committee member 2nd International Conference on Communication Theory, Reliability, and Quality of Service (CTRQ 2009), July 19-24, 2009, Colmar, France.

Program committee member 4th International Conference on Availability, Reliability and

Security (ARES 2009), March 16-19, 2009, Fukuoka, Japan.
Program committee member 4th International Workshop on Data Privacy Management (DPM 2009), September 24, 2009, Saint Malo, Britany, France.
Program committee member International Workshop on Security Measurements and Metrics (MetriSec 2009), October 14, 2009, Lake Buena Vista, Florida, USA.
Program committee member International Workshop on Frontiers of Information Assurance & Security (FIAS 2009), October 19-21, 2009, Gold Coast, Australia.
Publication chair International Symposium on Engineering Secure Software and Systems (ESSoS 2009), February 4-6, 2009, Leuven, Belgium.

2008

Program chair Symposium on Requirements Engineering for Information Security (SREIS 2008), March 4-7, 2008, Barcelona, Spain.
Program committee member 1st International Conference on Communication Theory, Reliability, and Quality of Service (CTRQ 2008), June 29 - July 5, 2008, Bucharest, Romania.
Program committee member 3rd International Conference on Availability, Reliability and Security (ARES 2008), March 4-7, 2008, Barcelona, Spain.
Program committee member 4th Workshop on Quality of Protection (QoP 2008), October 27, 2008, Alexandria, VA, US

2007

Program committee member 2nd International Conference on Availability, Reliability and Security (ARES 2007), April 10-13, 2007, Vienna, Austria.
Program committee member 3rd Workshop on Quality of Protection (QoP 2007), October 29, 2007, Alexandria, VA, US.

2006

Program committee member 1st International Conference on Availability, Reliability and Security (ARES 2006), April 20-22, 2006, Vienna, Austria.
Program committee member 2nd Workshop on Quality of Protection (QoP 2006), October 30, 2006, Alexandria, VA, US.

2005

Program committee member Symposium on Requirements Engineering for Information Security (SREIS 2005), August 29, 2005, Paris, France.

7 Activities as Referee

International Journals: ACM Transactions on the Web, Fundamenta Informaticae, IEEE Transactions on Software Engineering, International Journal of Software Engineering and Knowledge Engineering, IET Software, Journal of Computer Science and Technology, Journal of Systems and Software, Requirements Engineering, Software and System Modeling.

International Conferences: International Conference on Autonomous Agents and Multiagent Systems (AAMAS-05, AAMAS-06), International Conference on Availability, Reliability and Security (ARES-06, ARES-07, ARES-08, ARES-09, ARES-10), International Conference on Advanced Information Systems Engineering (CAiSE-05, CAiSE-06), Workshop on Combining Context with Trust, Security, and Privacy (CAT-10), International Conference on Communication Theory, Reliability, and Quality of Service (CTRQ-2008, CTRQ-2009, CTRQ-2010), International Workshop on Data Privacy Management (DPM-09, DPM-10), European Symposium on Research in Computer Security (ESORICS-07), European PKI Workshop: Theory and Practice (EuroPKI-07), Fundamental Approaches to Software Engineering (FASE-09), Global computing (2004), International Conference on Information and Communications Security (ICICS-04), International Conference on Service-Oriented

Computing (ICSOC-06), Information Security Conference (ISC-06), International Conference on Trust Management (iTrust-05), International Workshop on Security Measurements and Metrics (MetriSec-09), International Conference on Network-Based Information Systems (NBIS-09), International Conference on Network and System Security (NSS-09,NSS-10), IEEE International Conference on Information Privacy, Security, Risk and Trust (PASSAT-09), Workshop on Quality of Protection (QoP-06,QoP-07,QoP-08), International Workshop on Requirements Engineering Visualization (REV-08), International Workshop on Security, Privacy and Trust in Pervasive and Ubiquitous Computing (SecPerU-07), International Conference on Security and Cryptography (SECRYPT-09) Symposium on Requirements Engineering for Information Security (SREIS-05, SREIS-08), International Conference on Trust, Privacy & Security in Digital Business (TrustBus-06), International Workshop on Security in Information Systems (WOSIS-05, WOSIS-07).

National Conferences: Italian Conference on Theoretical Computer Science (ICTCS-05)

8 Talks

Tutorial at international conferences:

September 12, 2006 *Security Requirements Engineering Methodologies* (jointly with Fabio Massacci and John Mylopoulos) at the 14th IEEE International Requirements Engineering conference. Minneapolis/St. Paul, Minnesota, US.

National conferences and workshop:

October 19, 2006 *Modelling Dependability, Security and Trust in Tropos* at the Tropos Modelling Day. University of Trento, Italy.

October 2, 2006 *Security Requirements Engineering: The Secure Tropos Methodology* at the 3rd Incontro Nazionale del Gruppo di Interesse in Ingegneria del Software (GIIS). Genova, Italy.

Seminars:

May 30, 2012 *Purpose Control: Did you process the data for the intended purpose? To what extent?* at SnT, University of Luxembourg, Luxembourg.

October 3, 2011 *Measuring Privacy Compliance with Process Specifications* at COSIC/ESAT, Katholieke Universiteit Leuven, Belgium.

November 20, 2007 *A Requirements Engineering Methodology for Trust, Security, and Privacy* at Department of Computer Science, University of Toronto, Canada.

February 13, 2007 *A Requirements Engineering Methodology for Trust, Security and Privacy* at Department of Computer Science, University of Twente, Enschede, The Netherlands.

August 3, 2006 *Security Requirements Engineering Methodologies* at SAP Research Center Sophia Antipolis, SAP Labs France, Sophia Antipolis, France.

July 13, 2006 *Security Requirements Engineering: the Secure Tropos Methodology* at the IBM Zurich Research Laboratory, Rüschlikon, Switzerland.

August 23, 2005 *Maintaining Privacy on Derived Objects* at the Center for Secure Information Systems (CSIS), George Mason University, Fairfax, VA.

August 16, 2005 *Minimal Disclosure in Hierarchical Hippocratic Databases with Delegation* at the Center for Education and Research in Information Assurance and Security (CERIAS), Purdue University, West Lafayette, IN.

May 5, 2005 *Minimal Disclosure in Hierarchical Hippocratic Databases with Delegation* at the Center for Secure Information Systems (CSIS), George Mason University, Fairfax, VA.

June 1, 2004 *Modeling Privacy in Requirements Engineering* at Department of Information and Communication Technology, University of Trento, Italy.

Attendance to several conferences to present accepted papers (see attached publication list).

9 Teaching

Courses for graduate and undergraduate studies:

- 2012-2013** Instructor of the Bachelor course *Software engineering project* (2IP35), lecturer Dr. Lou Somers, Eindhoven University of Technology.
- 2012-2013** Co-lecturer of the Master course *Seminar Information Security Technology* (2IF03), lecturer Dr. Boris Skorić, Eindhoven University of Technology.
- 2012-2013** Co-lecturer of the Bachelor course *Minor Project* (2IM22), lecturer Dr. Erik Luit, Eindhoven University of Technology.
- 2012-2013** Responsible lecturer of the Master course *Distributed Trust Management* (2IS25), Eindhoven University of Technology.
- 2011-2012** Instructor of the Bachelor course *Software engineering project* (2IP35), lecturer Dr. Lou Somers, Eindhoven University of Technology.
- 2011-2012** Co-lecturer of the Master course *Seminar Information Security Technology* (2IF03), lecturer Dr. Boris Skorić, Eindhoven University of Technology.
- 2011-2012** Co-lecturer of the Bachelor course *Minor Project* (2IM22), lecturer Dr. Erik Luit, Eindhoven University of Technology.
- 2011-2012** Responsible lecturer of the Master course *Distributed Trust Management* (2IS25), Eindhoven University of Technology.
- 2010-2011** Co-lecturer of the Master course *Seminar Information Security Technology* (2IF03), lecturer Dr. Boris Skorić, Eindhoven University of Technology.
- 2010-2011** Co-lecturer of the Master course *Distributed Trust Management* (2IS25), lecturer Prof. Sandro Etalle, Eindhoven University of Technology.
- 2009-2010** Coordinator of the Bachelor course *Minor Project* (2IM23), Eindhoven University of Technology.
- 2009-2010** Co-lecturer of the Master course *Distributed Trust Management* (2IS25), lecturer Prof. Sandro Etalle, Eindhoven University of Technology.
- 2005-2006** Teacher assistant of the Master course *Security*, lecturer Prof. Fabio Massacci, Department of Information and Communication Technology, University of Trento.
- 2004-2005** Teacher assistant of the Master course *Security*, lecturer Prof. Fabio Massacci, Department of Information and Communication Technology, University of Trento.
- 2001-2002** Teacher assistant of the Master course *Elements of Computability*, lecturer Dr. G. Bellin, Department of Computer Science, Queen Mary University of London, UK.

10 Supervision of PhD and Master Students

Current PhD Students

- Sokratis Vavilis on trust management for home healthcare services (Daily supervisor)
- Meilof Veenigen on privacy analysis for identity management (Daily supervisor)
- Daniel Trivellato on trust management in systems of systems (Daily supervisor)

Current Master Students

- Antonio Piepoli on record linkage (Supervisor)

Former Master Students

- 2012** Sebastian Banescu. Decision Support for Privacy Auditing. Eindhoven University of Technology. (Supervisor)
- 2012** Geetha Bharathi Venkataramanapa. Manual versus Automated Compliance Checking of z/OS against GSD 331, DISA STIG, PCI DSS, HIPAA, ISO 27002. Eindhoven University of Technology. (Supervisor)
- 2012** Suhas Pai. Automated data classification for mainframes. Eindhoven University of Technology. (Supervisor)
- 2010** Jiannis Papadakis. On privacy & privacy policies in social networking: a reasoning approach using OWL and Prolog. Eindhoven University of Technology. (Tutor)
- 2009** Lesky Deni Saputra Anatias. Design and Implementation of a Trust Policy Decision Point (Trust PDP). Eindhoven University of Technology. (Tutor)
- 2009** Johan van Selst. Securing the iphion IPTV network. Eindhoven University of Technology. (Supervisor)

11 Research Activities

My research interests is in Formal Methods and Automated Reasoning techniques for Computer Security, Privacy and Data Protection, Requirements Engineering and Business Process.

Privacy, Data Protection, and Trust Management

- Data protection legislation requires personal data to be collected and processed only for lawful and legitimate purposes. Existing protection mechanisms are not appropriate for purpose control: they only prevent unauthorized actions from occurring and do not guarantee that the data are actually used for the intended purpose. I'm developing an auditing framework for detecting privacy infringements and measuring their severity. [ICW-7, ICW-9]
- Trust management (TM) is an approach to access control in distributed systems in which access control decisions are based on credentials issued by multiple authorities. Existing TM systems (1) implicitly assume a complete agreement among authorities on the vocabulary for the specification of credentials, and (2) only provide support for a syntactical consensus on the vocabulary. To address these issues, I have proposed, jointly with Prof. Sandro Etalle and Daniel Trivellato, POLIPO, a policy framework that combines distributed access control with ontologies to give a globally understandable semantics to policies, enabling interoperability among heterogeneous systems. [ICW-12, ICW-13]

- Over the years, formal methods have been developed for the analysis of security and privacy aspects of communication in IT systems. However, existing methods are insufficient to deal with privacy, especially in identity management (IdM), as they fail to take into account whether personal information can be linked to its data subject. I'm developing, jointly with Benne de Weger and Meilof Veeningen, a novel formal method to analyze privacy of communication protocols for IdM. [ICW-6, ICW-10]
- The protection of customers privacy is a fundamental issue in today's corporate marketing. I have proposed, jointly with Prof. Fabio Massacci and Prof. John Mylopoulos, a flexible framework for the negotiation of personal information among customers and enterprises, based on customer preferences, when enterprises adopt different strategies to achieve the same service. [IJ-16, ICW-28, ICW-34]
- Information systems may release information as part of their functionalities. I have proposed, jointly with Prof. Sushil Jajodia and Dr. Duminda Wijesekera, an authorization frameworks able to address information flow control and privacy protection issues. [ICW-31, ICW-33]
- XACML is the de facto standard for access control in industry. I have designed a system that enables the automatic analysis of access control policies specified in XACML, including properties such as Separation of Duty. In particular, I have implemented the XACML semantics in Prolog clauses to generalize request evaluations and developed a context-based XACML policy representation, based on a normalization procedure that leads to an efficient refinement check of condition-based hierarchical policies. This work is in collaboration with Dr. Günter Karjoth.

Security Requirements Engineering

- Security Requirements Engineering is an emerging field which lies at the crossroads of Security and Software Engineering. Much research has focused on this field in recent years, spurred by the realization that security must be dealt with in the earliest phases of the software development process as these phases cover a broader organizational perspective. I have proposed the SI* modeling language and the Secure Tropos methodology to address the problem of modeling and analyzing security, privacy, and trust requirements at the organizational level. We have also proposed a security pattern approach to address security (technical, social, and legal) issues in the system design. This work is in collaboration with Prof. Fabio Massacci and Prof. John Mylopoulos. [B-1, BC-2, IJ-8, IJ-13, IJ-15]
- Risk has been emerged as a metrics for prioritizing events. Risk (defined as the combination of the likelihood of an event and its consequences) depicts the criticality of an event in disrupting the system. Many frameworks have been proposed for risk management, but most of them overlook to analyze the organizational setting where the system operates. I have proposed, jointly with Prof. Paolo Giorgini and Dr. Yudistira Asnar, GR-Tropos, a formal framework that allows for tool-supported risk assessment and treatment selection in multi-agent systems. [ICW-20, ICW-26, ICW-27].
- Vulnerabilities are weaknesses in the requirements, design, and implementation, which attackers exploit to compromise the system. I have proposed, jointly with Prof. Eric Yu and Golnaz Elahi, a vulnerability-centric modeling and analysis framework, which aims to integrate empirical knowledge of vulnerabilities into the system development process and manage the risks of vulnerabilities in the system design [IJ-7, ICW-8, ICW-11].

Business Process

- How a workflow can be obtained from the early requirements analysis and ensuring the consistency between system requirements and the business processes that implement them

are urgent issues for the development of a system. I have proposed, jointly with Prof. Paola Mello and Dr. Paolo Torroni, \mathcal{B} -Tropos that enhances a well-known agent-oriented early requirements engineering framework with declarative business process-oriented constructs. We have also defined a mapping of \mathcal{B} -Tropos onto SCIFF, a computational logic-based framework, for properties and conformance verification [IJ-5, ICW-23]. Another stream of research, jointly with Prof. Fabio Massacci, focuses on the analysis of the consistency between requirements models and business process models. [ICW-21, ICW-22].

- Business Process Management is emerging as a means for understanding the activities that organizations can perform to optimize their business processes or to adapt them to new organizational needs. The Business Process Modeling Notation (BPMN) is emerging as the de-facto standard modelling notation in industry. Unfortunately, BPMN is informal and leaves room for ambiguity about its semantics. Moreover, it does not allow for formal analysis. To address these issues I have proposed, together with Prof. Quaglia and Dr. Davide Prandi, a translation of BPMN into the process calculus COWS and showed how the obtained semantic models can be quantitatively verified using the PRISM model checker [ICW-19].

Security Protocol Verification

- Application of symbolic analysis for the verification of infinite-state cryptographic protocols. This has been done partly in collaboration Dr. M. Fiore, Computer Science Department, University of Cambridge, UK, during the period at Queen Mary, University of London, and was part of my Master Thesis [O-2].
- Definition of a formal framework for approximating the dynamic behavior of mobile processes, expressed in π -calculus. This has been done in collaboration with Prof. Chiara Bodei, Prof. Pierpaolo Degano, and Prof. Corrado Priami. [ICW-40].

References

Books

- [B-1] Nicola Zannone. *Security Agent-Oriented Requirements Engineering: the SI* Modeling Language and the Secure Tropos Methodology*. VDM Verlag Dr. Mller Aktiengesellschaft & Co. KG, 2009. ISBN 978-3-639-17654-4.

Edited Books

- [EB-1] Úlfar Erlingsson, Roel Wieringa, and Nicola Zannone, editors. *Engineering Secure Software and Systems. Third International Symposium, ESSoS 2011, Madrid, Spain, February 9-10, 2011, Proceedings*, volume 6542 of *Lecture Notes in Computer Science*. Springer-Verlag GmbH, 2011. ISBN 978-3-642-19124-4.
- [EB-2] Fabio Massacci, Dan Wallach, and Nicola Zannone, editors. *Engineering Secure Software and Systems. Second International Symposium, ESSoS 2010, Pisa, Italy, February 2010, Proceedings*, volume 5965 of *Lecture Notes in Computer Science*. Springer-Verlag GmbH, 2010. ISBN 978-3-642-11746-6.
- [EB-3] Fabio Massacci, Samuel Redwine, and Nicola Zannone, editors. *Engineering Secure Software and Systems. First International Symposium, ESSoS 2009 Leuven, Belgium, February 4-6, 2009, Proceedings*, volume 5429 of *Lecture Notes in Computer Science*. Springer-Verlag GmbH, 2009. ISBN 978-3-642-00198-7.

Book Chapters

- [BC-1] Fabio Massacci and Nicola Zannone. Detecting Conflicts between Functional and Security Requirements with Secure Tropos: John Rusnak and the Allied Irish Bank. In Paolo Giorgini, Neil Maiden, John Mylopoulos, and Eric Yu, editors, *Social Modeling for Requirements Engineering*, chapter 9, pages 337–362. MIT Press, 2011. ISBN 978-0-262-24055-0.
- [BC-2] Fabio Massacci, John Mylopoulos, and Nicola Zannone. Security Requirements Engineering: the SI* Modeling Language and the Secure Tropos Methodology. In Zbigniew Ras and Li-Shiang Tsay, editors, *Advances in Intelligent Information Systems*, volume 265 of *Studies in Computational Intelligence*, pages 147–174. Springer-Verlag GmbH, 2010. ISBN 978-3-642-05182-1.
- [BC-3] Fabio Massacci, John Mylopoulos, and Nicola Zannone. An Ontology for Secure Socio-Technical Systems. In Peter Rittgen, editor, *Handbook of Ontologies for Business Interaction*, pages 188–207. Idea Group, 2007. ISBN 1-59904-660-1.
- [BC-4] Paolo Giorgini, Haralambos Mouratidis, and Nicola Zannone. Modelling Security and Trust with Secure Tropos. In Haralambos Mouratidis and Paolo Giorgini, editors, *Integrating Security and Software Engineering: Advances and Future Vision*, pages 160–189. Idea Group, 2006. ISBN 1-59904-149-9.
- [BC-5] Paolo Giorgini, Fabio Massacci, and Nicola Zannone. Security and Trust Requirements Engineering. In Alessandro Aldini, Roberto Gorrieri, and Fabio Martinelli, editors, *Foundations of Security Analysis and Design III - Tutorial Lectures*, volume 3655 of *Lecture Notes in Computer Science*, pages 237–272. Springer-Verlag GmbH, 2005. ISBN 3-540-28955-0.

International Journals

- [IJ-1] Daniel Trivellato, Nicola Zannone, and Sandro Etalle. GEM: a Distributed Goal Evaluation Algorithm for Trust Management. *Theory and Practice of Logic Programming*, 2012. To appear.
- [IJ-2] Seda Gürses, Magali Segurun, and Nicola Zannone. Requirements engineering within a large-scale security-oriented research project: lessons learned. *Requirements Engineering*, 2012. To appear.
- [IJ-3] Antonino Simone, Boris Škorić, and Nicola Zannone. Flow-based reputation: more than just ranking. *International Journal of Information Technology & Decision Making*, 11(3):551–578, 2012. ISSN 1793-6845.
- [IJ-4] Yudistira Asnar, Fabio Massacci, Ayda Saidane, Carlo Riccucci, Massimo Felici, Alessandra Tedeschi, Paul El Khoury, Keqin Li, Magali Segurun, and Nicola Zannone. Organizational Patterns for Security and Dependability: from design to application. *International Journal of Secure Software Engineering*, 2(3):1–22, 2011. ISSN 1947-3036.
- [IJ-5] Marco Montali, Paolo Torroni, Nicola Zannone, Paola Mello, and Volha Bryl. Engineering and Verifying Agent-Oriented Requirements augmented by Business Constraints with B-Tropos. *Autonomous Agents and Multi-Agent Systems*, 23(2):193–223, 2011. ISSN 1387-2532.

- [IJ-6] Klemens Böhm, Sandro Etalle, Jerry den Hartog, Christian Hütter, Slim Trabelsi, Daniel Trivellato, and Nicola Zannone. A Flexible Architecture for Privacy-Aware Trust Management. *Journal of Theoretical and Applied Electronic Commerce Research*, 5(2):77–96, 2010. ISSN 0718-1876.
- [IJ-7] Golnaz Elahi, Eric Yu, and Nicola Zannone. A Vulnerability-Centric Requirements Engineering Framework: Analyzing Security Attacks, Countermeasures, and Requirements Based on Vulnerabilities. *Requirements Engineering*, 15(1):41–62, 2010. ISSN 1432-010X.
- [IJ-8] Luca Compagna, Paul El Khoury, Alžběta Krausová, Fabio Massacci, and Nicola Zannone. How to Integrate Legal Requirements into A Requirements Engineering Methodology for the Development of Security and Privacy Patterns. *Artificial Intelligence and Law*, 17(1):1–30, 2009. ISSN 572-8382.
- [IJ-9] Paolo Guarda and Nicola Zannone. Towards the Development of Privacy-Aware Systems. *Information and Software Technology*, 51(2):337–350, 2009. ISSN 0950-5849.
- [IJ-10] Nicola Zannone. The SI* Modeling Framework: Metamodel and Applications. *International Journal of Software Engineering and Knowledge Engineering*, 19(5):727–746, 2009. ISSN 1793-6403.
- [IJ-11] Yudistira Asnar, Paolo Ciancarini, Paolo Giorgini, Rocco Moretti, Maurizio Sebastianis, and Nicola Zannone. Evaluation of Business Solutions in Manufacturing Enterprises. *International Journal of Business Intelligence and Data Mining*, 3(3):305–329, 2008. ISSN 1743-8187.
- [IJ-12] Nadzeya Kiyavitskaya and Nicola Zannone. Requirements Model Generation to Support Requirements Elicitation: The Secure Tropos Experience. *Automated Software Engineering*, 15(2):149–173, 2008. ISSN 1573-7535.
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