

ELDA PAJA

Name: Elda Paja
Nationality: Albanian

Languages: Albanian, mother tongue
English, fluent
Italian, fluent
German, intermediate
Spanish, intermediate

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Rued Langgaards Vej 7
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Research Interests

- Requirements Engineering, Modelling Languages and tools, Automated Reasoning Techniques
- Security, Privacy, Risk Management
- Conceptual Modelling, Socio-technical Systems, Participatory design, Strategic-decision making

Research experience

Assistant Professor

August 2019 - present

*IT University of Copenhagen, Computer Science Department
Software Engineering and Centre for Security and Trust*

- *Research Topics:*
Privacy Consent Monitoring and Verification: from requirements to business processes
Social Engineering Analysis: assessing business process vulnerability through attack patterns
Integrated Security and Safety Methods for Large-Scale Critical Systems

Postdoctoral Researcher

May 2016 – Aug 2019

*University of Trento, Department of Engineering and Information Science
Software Engineering and Formal Methods Group*

- *Research Topics:*
Adaptive Gamification for Cultural Heritage
Modelling and Reasoning Techniques for Digital Cost Management
Techniques for architectural change modelling and management of complex socio-technical systems
- *Supervisor:* Prof. Paolo Giorgini paolo.giorgini@unitn.it

Postdoctoral Researcher

May 2014 - May 2016

*University of Trento, Department of Engineering and Information Science
Software Engineering and Formal Methods Group*

- *Research:* Security requirements engineering for evolvable socio-technical systems
- *Supervisor:* Prof. John Mylopoulos jm@cs.toronto.edu

Visiting PhD Student, Carnegie Mellon University - CMU

Sep 2013 - Nov 2013

Institute of Software Research International.

- *Research:* Security requirements engineering to capture privacy requirements
- *Host:* Prof. Travis Breaux breaux@cs.cmu.edu

Research Internship, University of Trento

Mar 2010 - Nov 2010

*University of Trento, Department of Engineering and Information Science
Software Engineering and Formal Methods Group*

- *Research:* Modelling and reasoning about service-oriented applications via goals and commitments
- *Group of Software Engineering and Formal Methods*
- *Advisor:* Prof. Paolo Giorgini paolo.giorgini@unitn.it

Internship MSc, Fraunhofer Institute, Bonn (Germany)

Nov 2007 - Nov 2008

Advisors: R. Oppermann and A. Zimmermann

Access Management for shared applications in Ubiquitous Computing – part of User-oriented system design lab

Education**PhD in Information Engineering and Computer Science, University of Trento (Italy)**

2014

Dissertation: “STS: A Security Requirements Engineering Methodology for Socio-Technical Systems”.

Advisor: Paolo Giorgini

M.S. European Master in Informatics (EuMI), RWTH Aachen (Germany), University of Trento (Italy)

2010

Thesis: “Modeling Design patterns with Description Logics”.

Advisors: John Mylopoulos and Gerhard Lakemeyer

B.S. in Computer Science, University of Tirana, Albania

2007

Thesis: “Comparison of different types of intelligent agents: A case study and a simulation”.

Advisor: Betim Çiço

Honours and Awards

- Postdoctoral Fellowship, University of Trento, *June 2016*
- Starting Grant 2014 recipient, University of Trento, *October 2014*
- Postdoctoral Fellowship, University of Trento, *May 2014*
- PhD on The Move Programme Grant recipient, Trento Rise, *June 2013*
- PhD Fellowship, DISI, University of Trento, *November 2010*
- Erasmus Mundus Scholarship for the EuMI Master Programme, *June 2007*

- 2 papers were nominated for best paper award and consequently invited for journal publications: ER2011 [12] and ER2013 [11].

Funding experience

Villum Young Investigator, main PI, budget ~7Million DKK
[STS@Scale, Security Engineering for Large-Scale Agile.]

under revision

Caritro Foundation, Research Grant, 45.000 Euros

won, starting Nov 1. 2018

[Research Grant for projects coordinated by a young postdoctoral researcher.]

H2020 Sesar Joint Undertaking, Research and Innovation, overall budget 998.355 Euros Mar 2016 – Mar 2018

[PACAS project, served as project co-coordinator]

Involvement: (i) defined the modelling languages to support the work of multiple experts from different areas of expertise, in particular on security, safety, economic and organizational aspects; (ii) designed the PACAS platform, and supported the creation of the gamification solution, (iii) provided support for the reasoning for change impact propagation defining the mapping among the various modeling languages. Finally, performed validation and dissemination activities.

APSS, Province of Trento, Research and Experimentation, ~30.000 Euros

Mar 2017 – Jun 2018

Involvement in European and National Projects**DICOM:** Mar 2018 – June 2019 [partnered with Cosman Italia Srl]**Involvement:** define the graphical modelling languages to support the reengineering of organizational

processes, in particular those related to cost management. Define optimization algorithms for best practices in cost management. Support the automation of data acquisition and the creation of a database/data warehouse for business intelligence.

APSS: 2016 – Jun. 2018

Involvement: defined the project proposal together with APSS. After approval, defined the needs for the certification of processes to comply with the privacy data regulations, and preparing for the new GDPR, entered in force in May 2018. Coordinated the work on a new extension for privacy of STS.

VISION: Jul. 2015 – Jul. 2017 <http://www.visioneuproject.eu/>

Involvement: design and provide guidance for the definition of scenarios and pilots for conducting requirements elicitation; design of a modeling framework (language, reasoning techniques, support tool) to specify privacy requirements at the organizational and procedural level; provide input and feedback on the platform architecture, in particular for component interoperation.

LUCRETIUS: 2014 – 2016 <http://www.lucretius.eu/>

Involvement: Advance current security requirements engineering techniques in order to manage the effects of evolution of socio-technical systems in order to maintain compliance with security requirements. Work on business intelligence and analytics to support strategic decision-making.

ANIKETOS: 2010 – Jul. 2013 <http://www.aniketos.eu/>

Involvement: design of a modeling framework (language, reasoning techniques, support tool) to specify security requirements at the organizational level.

NESSOS: Oct. 2010 – Mar. 2014 <http://www.nessos-project.eu/>

Involvement: presented a tool-supported security requirements engineering technique, and gave talks and tutorials on the proposed technique; contributed to the Nessos Book.

ERise Challenge 2011, 2012, 2013: <https://securitylab.disi.unitn.it/doku.php?id=erise>

Involvement: participated as an observer during the focus group discussions.

Seegrid Albania: Jan. 2007 – Jan. 2007

Involvement: implemented grid infrastructure for the Faculty of Natural Sciences at the University of Tirana.

Tools

- PACAS gamified web-platform, support platform for participatory decision making for change management.
URL: <https://pacas.unitn.it/pacas-review>¹ Mar 2016 – Mar 2018
- STS-Tool, the support tool for security requirements modelling and analysis conducted with STS-ml.
URL: <http://www.sts-tool.eu> Mar 2011 – now,
full time programmer: Mauro Poggianella

Invited Talks

More than **10 talks** in research centres, universities, and companies, excluding talks at conferences.

List of selected talks.

- “*Toward GDPR-certified Business Processes: the ProPrivacy Method*” Dec 2019
CNR, Pisa, Italy
- “*Designing secure socio-technical systems: a model-based requirement engineering approach*” Aug 2019
University of Gothenburg and Chalmers
- “*Security and privacy requirements engineering in the healthcare domain*” May 2016

¹ Credentials are needed, and can be provided upon request, as the platform supports the interaction of different teams of experts.

- Italian Data Protection Authority, Rome, Italy
- “*Security Requirements Engineering: Designing Secure Socio-Technical Systems*” April 2016
Series of seminars and invited talks at the following venues:
University of British Columbia, Vancouver, Canada
Polytechnic University of Catalonia, Barcelona, Spain
University of Alicante, Alicante, Spain
ATOS Research, Madrid, Spain
University of Malaga, Malaga, Spain
- “*Designing Secure Socio-Technical Systems with STS-ml and STS-Tool*” October 2013
Institute for Software Research, Carnegie Mellon University, USA
- “*Socio-Technical Security Modelling Language and Tool*” December 2012
Bruno Kessler Foundation, Trento, Italy
- “*Modelling Trust and Security Requirements*” March 2012
ICT Days, Trento, Italy

Student supervision

PhD students mentoring: Marco Robol (*3rd year PhD student working on Privacy and GDPR Compliance*), Luca Piras (*AGON: A framework for acceptance requirements and their gamification solutions*), Mattia Salnitri (*Secure Business Process Engineering: A Socio-technical Approach*), Tong Li (*Holistic Security Requirements Engineering for Socio-Technical Systems*).

Master thesis students:

@ITU: Tudor-Mihai Nastasa (ongoing, Secure and Usable Blockchain for Supply Chain Management), Camilla Nadja Fleron (Developing a security framework for Danish SMEs), Jonas Kofod Jørgensen (Designing a Security Guide for Danish SMEs), Natalya Tarasenko (ongoing, Security and Privacy Issues on the Cloud).
@University of Trento Melkamu Tsegaye Emiru (2016, *Dealing with Privacy Compliance in the European Union*), Joseph Brian Kasozi (2015, *Goal Models vs Five Forces Model: A Comparative Study of Strategic Analyses*), Salimeh Dashti (2015, *Risk Analysis with STS-Tool: a Coras-based Approach*), Olga Fedoseeva (2014, *Design and Implementation of Electronic Medical Record System*).

Bachelor thesis students: Michele Bortolotti, Andrea Pelizzari, Andrea Ghizzoni, Linda Marilena Bertolli, Daniele Giovanella, Alessio Scussel, Luca Rospocher, Andrea Primon.

Teaching experience

Course Responsible , MSc in Software Design, <i>Software Engineering</i> Computer Science Department, IT University of Copenhagen	Autumn 2020
Co-Lecturer , BA in Digital Design, <i>Qualitative and Quantitative Methods</i> Digital Design Department, IT University of Copenhagen	Spring 2020
Co-Lecturer , MSc in Software Design, <i>Software Engineering</i> Computer Science Department, IT University of Copenhagen	Autumn 2019
Lecturer , BA, <i>Software Engineering II</i> Department of Engineering and Information Science, University of Trento	Autumn 2018
Lecturer , MSc, <i>Organizational Information Systems</i> Department of Engineering and Information Science, University of Trento	Spring 2016
Lecturer , MSc, <i>Organizational Information Systems</i> Department of Engineering and Information Science, University of Trento	Spring 2015

Co-lecturer, MSc, *Organizational Information Systems*
Department of Engineering and Information Science, University of Trento

Spring 2014

Teaching Assistant, MSc, *Organizational Information Systems*
Department of Engineering and Information Science, University of Trento

Spring 2013

Teaching Assistant, BSc, *Introduction to Algorithms*
Department of Economy, University of Tirana, Albania

Spring 2007

Professional Service

Guest Editor: *Special Issue on Security Requirements Engineering*, journal Information (ISSN2078-2489)

Program Committee:

- 2020: REFSQ, RE@Next!, RCIS, EMMSAD, ECIS
- 2019: REFSQ, ACOMP, RE@Next!
- 2018: REFSQ, RE@Next!, RE Posters and Demos, ReLaw, iStar, SAC
- 2017: REFSQ, RE@Next!, RE Posters and Demos, ReLaw, iStar, SAC
- 2016: RE@Next!, RE Posters and Demos, ReLaw, iStar
- 2015: RE Posters and Demos, ReLaw, iStar, iStar Teaching
- 2014: iStar

Reviewer:

- **Projects:** Swiss National Science Foundation
- **Journals:** Technology in Society [TIS'19], Future Generation Computer Systems [FGCS'19], ACM Transactions on Software Engineering and Methodology [TOSEM'18], IEEE Transactions on Software Engineering [TSE'19 and 18], Transactions on Emerging Topics in Computing [TETCSI'18], IEEE Access'18, Empirical Software Engineering [EMSE'17], IET Software [IETSW'17]; Software: Practice and Experience [SPE'17]; Business and Information Systems Engineering [BISE'16]; ACM Transactions on Management Information Systems [TMIS'16]; International Journal of Human-Computer Studies [IJHCS'16]; Expert Systems Journal of Knowledge Engineering [ESJKE'16]; Software Quality Journal [SQJ'16]; ACM Transactions on Management Information Systems [TMIS'16]; IEEE Transactions on Software Engineering (TSE) [TSE'14]; International Journal of Information Security [IJIS'13]; IEEE Security and Privacy [SP'15]; Expert Systems Journal of Knowledge Engineering [ESJKE'15]
- **External Reviewer:** RCIS'16, CAiSE'16, TrustCom'16, Coopls'16, ER'16, ICSE'15, ICSOC'14, CAiSE'14, RCIS'13

Other service:

- [RE Cares 2020](#) Contributor
- RE 2011 (Student volunteer)

Tutorials at International Conferences:

- Caise 2013: *Security Requirements Engineering for Socio-Technical Systems*.
Tutorial given at the 25th International Conference on Information Systems Engineering with Fabiano Dalpiaz, Valencia, Spain, June 19, 2013
- RE 2012: *Security Requirements Engineering for Socio-Technical Systems*.
Tutorial given at the 20th International Requirements Engineering Conference with Fabiano Dalpiaz, Chicago, Illinois, United States, September 27, 2012

Complete list of publications

h-index: Google Scholar **13**, Scopus **9** – As of 15 May. 20

ORCID ID: <https://orcid.org/0000-0002-8346-2467>

Books

- [1] Fabiano Dalpiaz, **Elda Paja** and Paolo Giorgini, *Security Requirements Engineering: Designing Secure Socio-Technical Systems*, MIT Press 2016.

Journal Papers

- [1] Jennifer Horkoff, Fatma Başak Aydemir, Evellin Cardoso, Tong Li, Alejandro Maté, **Elda Paja**, Mattia Salnitri, Luca Piras, John Mylopoulos, and Paolo Giorgini, *Goal-oriented requirements engineering: an extended systematic mapping study*, Requirements Engineering Journal, 2017, pp. 1-28.
- [2] **Elda Paja**, Fabiano Dalpiaz, and Paolo Giorgini, *Modelling and Reasoning about Security Requirements in Socio-Technical Systems*, Data and Knowledge Engineering (DKE'15) Special Issue on ER 2013, Volume 98 (2015), pages 123-143.
- [3] Per Håkon Meland, **Elda Paja**, Erlend Andreas Gjære, Stéphane Paul, Fabiano Dalpiaz, and Paolo Giorgini (2014), *Threat Analysis in Goal-Oriented Security Requirements Modelling*, International Journal of Secure Software Engineering, Volume 5(2), 2014, pp. 1-19.
- [4] **Elda Paja**, Amit K. Chopra, and Paolo Giorgini (2013), *Trust-based Specification of Sociotechnical Systems*, Data and Knowledge Engineering (DKE) Special Issue ER 2011.
- [5] Sandra Trösterer, Elke Beck, Fabiano Dalpiaz, **Elda Paja**, Paolo Giorgini, and Manfred Tscheligi (2012), *Formative User-Centered Evaluation of Security Modeling: Results from a Case Study*, International Journal of Secure Software Engineering 3 (1), pp. 1-19.
- [6] Betim Cico, Alketa Hyso, and **Elda Paja**, *Comparison of different types of intelligent agents: a case study and a simulation*, AJNTS (Albanian Journal of Natural and Technical Sciences), Tirana, Albania, 2007 (1), XIII (21), pp. 116-125.

Conference Papers

- [1] Marco Robol, Travis D. Breaux, **Elda Paja**, and Paolo Giorgini, *Consent Verification Under Evolving Privacy Policies*, In Proceedings of the 27th IEEE International Requirements Engineering Conference (RE'19), pages 422-427, Jeju Islands, South Korea.
- [2] Marco Robol, **Elda Paja**, Mattia Salnitri, and Paolo Giorgini, *Modeling and reasoning about privacy-consent requirements*, In Proceedings of the 11th IFIP WG 8.1 working conference on the Practice of Enterprise Modelling, PoEM 2018, pages 238-254, Vienna, Austria.
- [3] Luca Piras, **Elda Paja**, Paolo Giorgini, John Mylopoulos, Roberta Cuel, and Diego Ponte, *Gamification solutions for software acceptance: a comparative study of requirements engineering and organizational behavior techniques*, In Proceedings of the 11th International Conference on Research Challenges in Information Science, RCIS'17, pages 255-265, Brighton, UK.
- [4] Luca Piras, **Elda Paja**, Paolo Giorgini, and John Mylopoulos, *Goal Models for Acceptance Requirements Analysis and Gamification Design*, In Proceedings of the 36th International Conference on Conceptual Modeling, ER 2017, pages 223-230, Valencia, Spain.
- [5] Salimeh Dashti, **Elda Paja**, and Paolo Giorgini, *Information Security Risk Management*, In Proceedings of the 10th IFIP WG 8.1 working conference on the Practice of Enterprise Modelling, PoEM 2017, pages 18-33, Leuven, Belgium.
- [6] **Elda Paja**, Alejandro Maté, Carson Woo, and John Mylopoulos, *Can Goal Reasoning Techniques be used for Strategic Decision-Making?*, In Proceedings of the 35th International Conference on Conceptual Modeling, ER 2016, pages 530-543, Gifu, Japan.
- [7] Mohamad Gharib, Mattia Salnitri, **Elda Paja**, Paolo Giorgini, Haralambos Mouratidis, Michalis Pavlidis, Jose F. Ruizz, Sandra Fernandez, and Andrea Della Siria, *Privacy Requirements: Findings and Lessons Learned in Developing a Privacy Platform*, In Proceedings of the 24th IEEE International Requirements Engineering Conference, RE 2016, pages 256-265, Beijing, China.
- [8] Jennifer Horkoff, Fatma Başak Aydemir, Evellin Cardoso, Tong Li, Alejandro Mate, **Elda Paja**, Mattia Salnitri, John Mylopoulos, and Paolo Giorgini, *Goal-Oriented Requirements Engineering: A Systematic Literature Map*, In Proceedings of the 24th IEEE International Requirements Engineering Conference, RE 2016, pages 106-115, Beijing, China.
- [9] Tong Li, Jennifer Horkoff, **Elda Paja**, Kristian Beckers, and John Mylopoulos, *Security Attack Analysis Using Attack Patterns*, In Proceedings of the 10th International Conference on Research Challenges in Information Science, RCIS'16, pages 1-13, Grenoble, France.
- [10] Tong Li, Jennifer Horkoff, **Elda Paja**, Kristian Beckers, and John Mylopoulos, *Analyzing Attack Strategies Through Anti-goal Refinement*, In Proceedings of the 8th IFIP WG8.1 Working Conference on the Practice of Enterprise Modelling, PoEM 2015,

pages 75-90, Valencia, Spain.

- [11] **Elda Paja**, Fabiano Dalpiaz and Paolo Giorgini, *Managing Security Requirements Conflicts in Socio-Technical Systems*, In Proceedings of the 32nd International Conference on Conceptual Modeling, ER 2013, pages 270–283.
- [12] Amit K. Chopra, **Elda Paja**, and Paolo Giorgini. *Socio-Technical Trust: An Architectural Approach*, In Proceeding of the 30th International Conference on Conceptual Modeling, ER 2011, pages. 104-117.
- [13] Yudistira Asnar, **Elda Paja**, and John Mylopoulos, *Modeling Design Patterns with Description Logics*, In proceedings of the 23rd International Conference on Advanced Information Systems Engineering (CAISE'11)
- [14] Betim Cico, Alketa Hyso, and **Elda Paja**, *Comparison of different types of intelligent agents: a case study and a simulation*, Proceedings of Third International Bulgarian - Turkish Conference, Computer Science'06, 12-15 October 2006, Istanbul, Turkey, Part I, pages. 273-278.

Book chapters

- [1] **Elda Paja**, Fabiano Dalpiaz, and Paolo Giorgini, STS-Tool: Security Requirements Engineering for Socio-Technical Systems, In Advances in Engineering Secure Future Internet Services and Systems, volume 8431 of LNCS, 2014, pp. 65-96.
- [2] **Elda Paja**, Fabiano Dalpiaz, and Paolo Giorgini, The Socio-Technical Security Requirements Modelling Language for Secure Composite Services, In Secure and Trustworthy Service Composition: The Aniketos Approach, Lecture Notes in Computer Science, Volume 8900, 2014, pp. 63-78.
- [3] **Elda Paja**, Mauro Poggianella, Fabiano Dalpiaz, Pierluigi Roberti and Paolo Giorgini, Security Requirements Engineering with STS-Tool, In Secure and Trustworthy Service Composition: The Aniketos Approach, Lecture Notes in Computer Science, Volume 8900, 2014, pp. 95-109.

International workshops and other publications

- [1] **Elda Paja**, Mauro Poggianella, Fatma Başak Aydemir, and Paolo Giorgini, *PACAS: A Gamified Platform for Participatory Change Management in ATM Systems*, In Proceedings of REFSQ'18 Posters and Demo, Utrecht, Netherlands.
- [2] Mattia Salnitri, **Elda Paja**, and Paolo Giorgini, *Maintaining secure business processes in light of socio-technical systems' evolution*, In Proceedings of the 6th International Model-Driven Requirements Engineering, MoDRE'16, pages 155-164, Beijing, China.
- [3] **Elda Paja**, Jennifer Horkoff, and John Mylopoulos, *The importance of teaching Systematic Analysis for Conceptual Models: An Experience Report*. In Proceedings of the 34th International Conference in Conceptual Modelling - Workshops (ER'15 Workshops), pages 347-357, Stockholm, Sweden.
- [4] **Elda Paja**, Jennifer Horkoff, and John Mylopoulos, *The importance of teaching goal-oriented analysis techniques: an experience report*, Proceedings of the 1st iStar Teaching Workshop, iStarT 2015, pages 37-42, Stockholm, Sweden.
- [5] Mattia Salnitri, **Elda Paja**, Mauro Poggianella, and Paolo Giorgini, *STS-Tool 3.0: Maintaining Security in Socio-Technical Systems*, CAiSE Forum 2015, pages 205-212, Stockholm, Sweden.
- [6] Tong Li, Jennifer Horkoff, Kristian Beckers, **Elda Paja**, and John Mylopoulos, *A Holistic Approach to Attack Modeling and Analysis*, iStar'15, pages 49-54, Ottawa, Canada.
- [7] Tong Li, **Elda Paja**, John Mylopoulos, Jennifer Horkoff, and Kristian Beckers, *Holistic Security Requirements Analysis: An Attackers Perspective*, RE'15 Posters and Demo, pages 282-283, Ottawa, Canada.
- [8] Mattia Salnitri, **Elda Paja**, and Paolo Giorgini, *Preserving compliance with security requirements in socio-technical systems*, 3rd CSP Forum 2014, pp. 49-61, Athens, Greece.
- [9] **Elda Paja**, Fabiano Dalpiaz, Mauro Poggianella, Pierluigi Roberti, and Paolo Giorgini, *Security requirements engineering for socio-technical systems with STS-Tool*, 3rd CSP Forum 2014, Athens, Greece.
- [10] **Elda Paja**, Fabiano Dalpiaz, Mauro Poggianella, Pierluigi Roberti, and Paolo Giorgini, *Specifying and Reasoning over Socio-Technical Security Requirements with STS-Tool*, In Proceedings of the 32nd International Conference in Conceptual Modelling - Workshops (ER'13 Workshops).
- [11] **Elda Paja**, Fabiano Dalpiaz, and Paolo Giorgini, *Designing Secure Socio-Technical Systems with STS-ml*, Sixth International i* Workshop (iStar'13), Valencia, Spain.
- [12] **Elda Paja**, Fabiano Dalpiaz, Mauro Poggianella, Pierluigi Roberti, and Paolo Giorgini, *STS-Tool: Specifying and Reasoning over Socio-Technical Security Requirements*, Sixth International i* Workshop (iStar'13), Valencia, Spain.
- [13] **Elda Paja**, Fabiano Dalpiaz, Mauro Poggianella, Pierluigi Roberti, and Paolo Giorgini, *STS-Tool: Socio-Technical Security Requirements through Social Commitments*, RE'12 Demo and Posters.
- [14] **Elda Paja**, Fabiano Dalpiaz, Mauro Poggianella, Pierluigi Roberti, and Paolo Giorgini, *STS-Tool: Using Commitments to Specify Socio-Technical Security Requirements*, ER'12 Demonstrations.
- [15] **Elda Paja**, Fabiano Dalpiaz, Mauro Poggianella, Pierluigi Roberti, and Paolo Giorgini, *Modelling Security Requirements in Socio-Technical Systems with STS-Tool*, CAiSE'12 Forum.
- [16] **Elda Paja**, Paolo Giorgini, Stephane Paul, and Per Hakon Meland, *Security Requirements Engineering for Business Processes*, In Proceedings of the First International Workshop on Alignment of Business Process and Security Modelling (ABPSM 2011)

- [17] Fabiano Dalpiaz, **Elda Paja**, and Paolo Giorgini, *Security Requirements Engineering via Commitments*, First Workshop on Socio-Technical Aspects in Security and Trust (STAST'2011), Milan, Italy, 2011.
- [18] Fabiano Dalpiaz, **Elda Paja**, and Paolo Giorgini, *Security Requirements Engineering for Service-Oriented Applications*, Fifth International i* Workshop (iStar'11), Trento, Italy, 2011.
- [19] **Elda Paja**, Fabiano Dalpiaz, Paolo Giorgini, Stephane Paul, and Per Hakon Meland (2011) *Modelling Trust and Security Requirements: the Air Traffic Management Experience*. In Proceedings of iStar Showcase 2011.

Working experience in industry

External consultant, FFZM, Tirana

Apr 2007 - Jul 2007

Internal training course organization; migration of information systems; Support activities.

IT Auditor, Banka Popullore, Societe Generale Group, Tirana

Jul 2006 - Sep 2007

Periodic IT audit inspections; reports and system maintenance.

IT Specialist, Banka Popullore, Societe Generale Group, Tirana

May 2004 - Jul 2006

System integration and management; database management; procedures administration.

Other interests

Foreign languages, reading, cooking, yin yoga, and recreational swimmer.