

# Fabiano Dalpiaz



## Curriculum vitae

### Personal Information

Date of birth	18/05/1981	Nationality	Italian
Gender	Male	E-mail	f.dalpiaz@uu.nl
Website	www.staff.science.uu.nl/~dalpi001/		
Office Address	Universiteit Utrecht Department of Information and Computing Sciences Buys Ballot Laboratory, office 580 Princetonplein 5, 3584 CC Utrecht, The Netherlands		
Phone (office)	+31 302535913		

### Current Position

Sep 2013–now Assistant professor in the Organization & Information research group at the Department of Information and Computing Sciences, Utrecht University, The Netherlands. My research focuses on requirements engineering, with emphasis on increasing modeling languages, automated reasoning (based on logics and natural language processing) and gamification to increase the quality of the requirements engineering process and artifacts.

### Education

- 2006–2011 **PhD in Computer Science**, *University of Trento*, Italy, International Doctorate School in Information and Communication Technology.  
*Exploiting Contextual and Social Variability for Software Adaptation*  
Supervisors: John Mylopoulos and Paolo Giorgini  
URL: <http://eprints-phd.biblio.unitn.it/451/2/fabiano-phd-20110208.pdf>
- 2003–2005 **MSc degree in Computer Science**, *University of Trento*, Italy, 110/110 cum laude.
- 2000–2003 **BSc degree in Computer Science**, *University of Trento*, Italy, 99/110.

### Previous Academic Experience

- 7/2012–8/2013 **Post-doctoral fellow**, *Dept. of Computer Science*, Canada, University of Toronto.  
Participation in the NSERC BIN project, wherein I have contributed to the BIM modeling language in different ways (extensions for tactical modeling, usage of the model at runtime), and I developed a graphical modeling and reasoning tool for BIM (BIM-Tool).
- 2/2011–7/2012 **Post-doctoral researcher**, *Department of Information Engineering and Computer Science (DISI)*, Italy, University of Trento.  
Design of a security requirements modeling language for socio-technical systems (STS-ml). The language has been extensively applied to case studies in the Aniketos EU FP7 research project, through its support modeling and analysis tool (STS-Tool).

## Research Projects

### Funded Projects

PACAS Participatory Architectural Change Management in ATM Systems—funded by the European Commission under the H2020 scheme, 247k€ awarded by Utrecht University, overall budget 1M€—concerns the participatory architectural evolution of Air Traffic Management (ATM) systems. The project delivers a participatory change management process where stakeholders will actively participate to the architectural evolution of the ATM system, based on (i) domain-specific modeling languages to; (ii) impact propagation techniques; (iii) a gamified platform to foster collaboration (2016–2018).

### Participation

- BIN Business Intelligence Network—funded by the National Sciences and Engineering Research Council of Canada—proposes an innovation platform for pre-competitive research in Business Intelligence in Canada. Within the BIN network, the project “Design of a Business Intelligence Model” is concerned with devising a modeling language for strategic business models (2012–2013).
- Aniketos Ensuring Trustworthiness and Security in Service Composition—funded by the EU Commission, FP7—is concerned with the design and implementation of secure and trustworthy service compositions. The project lies within the scope of *Future Internet* services, that are (re-)composed, transparently to the end user, to guarantee security and trustworthiness (2010–2013).
- Lucretius Foundations for Software Evolution, is an ERC Advanced Investigator Grant awarded by Prof. John Mylopoulos. Lucretius is concerned with techniques for designing software systems that evolve in response to change. My work resulted in an executable modeling language for business process based on the notion of commitments (2011–2013).
- TasLab Trentino as a Lab—funded by the *European Social Fund*—supports the evolutionary process faced by local communities, users and enterprises (especially SMEs). TasLab is based on the “Innovation Tripole” concept, which is employed to establish partnerships between public administration, innovative SMEs and researchers (2009–2010).
- MEnSA Methodologies for the Engineering of complex software Systems: Agent-based approach—financed by the Italian Ministry for Education, University, and Research—employs a metamodel-based approach and proposes an integrated agent-oriented software engineering method for developing complex software systems (2007–2008).
- SERENITY System Engineering for Security and Dependability—financed by the EU commission, FP6—focuses on providing appropriate security and dependability (S&D) mechanisms for Ambient Intelligence (Aml) ecosystems. SERENITY creates a practical secure and dependable solution for these heterogeneous and dynamic architectures. (2006–2009).
- MOSTRO MObeling Security and Trust Relationships within organizations—financed by the Autonomous Province of Trento—aims is to detect security flaws in the very early stages of software design and development, taking into account the reasons for the existence of ineffective practices in software design. The project combines ontological analysis, security modeling, multi-agents reasoning, and systems engineering. (2006–2007).

---

## Honors and Awards

- Invited to journal Four conference papers were invited for a journal publication: i) RE 2016 [23], journal paper under review; ii) RE 2015 [29] leading to Requirements Engineering Journal [5]; iii) BPMDS'14 [35] resulting in Software and Systems Modeling [4]; and iv) ER 2013 [38] resulting in Data & Knowledge Engineering 2015 [6].
- Best paper RE@40 The RCIS 2015 paper [25] was selected as the best paper among 199 submissions.
- RE Jubilee Personal invitation to the RE@40 Seminar: Forty Years of Requirements Engineering—Looking Forward and Looking Back held at the Kloster Kappel, Switzerland.
- Invited talks My work was featured in two invited talks: i) Asia-Pacific Conference on Conceptual Modelling (APCCM 2014) [60]; and ii) IEEE International Conference on Research Challenges in Information Science (RCIS 2013) [61].
- Teaching Three of my courses received a total of four teaching quality awards within the courses offered by the department in a given term: Serious Gaming Seminar (2013–2014 and 2015–2017), Game Production (2013–2014), and Information Security (2016–2017).

---

## Supervision

### Postdoctoral Research Associates

- 5/2016– **Fatma Başak Aydemir**, *Utrecht University*, Netherlands.  
Research related to the PACAS H2020 project and to automated requirements engineering.

### PhD Students

- 1/2017– **Davide Dell'Anna**, *Utrecht University*, Netherlands, Supervision of Autonomous Software Systems.  
Co-promotor with Mehdi Dastani, promotor: John-Jules Meyer and Sjaak Brinkkemper.
- 9/2014–12/2017 **Garm Lucassen**, *Utrecht University*, Netherlands, Understanding User Stories: Applying Natural Language Processing to Foster Quality and Discussion.  
Co-promotor, the promotor is Sjaak Brinkkemper.
- 9/2013–10/2014 **Kevin Vlaanderen**, *Utrecht University*, Netherlands, Supporting Process Improvement using Method Increments.  
Co-promotor for the last year, the promotor is Sjaak Brinkkemper.
- 11/2010–5/2014 **Elda Paja**, *University of Trento*, Italy, STS: A Security Requirements Engineering methodology for socio-technical Systems.  
Unofficial co-promotor, the promotor is Paolo Giorgini.

### MSc and BSc Students

I supervised over 25 successful MSc students and some BSc students as first and second supervisor, leading to several publications, including Fabiano Francesconi [37, 26], Remco Snijders [82, 79, 62], Michal Korenko [76], Rick Barneveld [27], Bill Roungas [30], Philipp Lombriser [20], Marcel Robeer [23], Jan Strien [24].

---

## Tools

- My research often leads to tool prototypes, some of which are available online.
- Interactive Narrator Information visualization techniques for user stories [22] starting from the outputs of the Visual Narrator. URL: <https://github.com/Gionimo/InteractiveNarrator>

Visual Narrator	Extracts conceptual models from user story requirements, based on NLP heuristics [23]. URL: <a href="https://github.com/MarcelRobeer/VisualNarrator">https://github.com/MarcelRobeer/VisualNarrator</a>
AQUSA	The Automatic Quality User Story Artisan tool uses NLP to identify flaws in the linguistic structure of user story requirements. URL: <a href="https://github.com/gglucass/AQUSA">https://github.com/gglucass/AQUSA</a>
STS-Tool	Support tool for security requirements modeling and automated reasoning with the STS-ml language [94, 95, 57]. URL: <a href="http://www.sts-tool.eu">http://www.sts-tool.eu</a>
BIM-Tool	Modeling and reasoning tool for the Business Intelligence Model (BIM) language, which supports “what-if” and “is it possible?” based on a Datalog encoding. URL: <a href="http://www.cs.toronto.edu/~jm/bim">www.cs.toronto.edu/~jm/bim</a>
FM-Context	Support tool for modeling and automated analysis of contextual feature models [40]. Reasoning used a disjunctive Datalog reasoner. URL: <a href="http://goo.gl/wx3VI">http://goo.gl/wx3VI</a>
GCAadapt	Simulator for requirements-driven adaptive agents based on the goals & commitments approach [46]. GCAadapt makes use of a SAT-based automated solver. URL: <a href="http://goo.gl/wx3VI">http://goo.gl/wx3VI</a>

## Teaching

Lecturer	<b>Game Production</b> , Utrecht University, Master’s in Business Informatics. This course presents the list of activities, methods, models, and tools to support the production of videogames (2013–2014, 2014–2015, 2015–2016, 2016–2017)
Lecturer	<b>Information Security</b> , Utrecht University, Bachelor in Information Science. This course teaches the fundamentals of information security and presents the use of modeling languages for designing of secure socio-technical systems (2015–2016, 2016–2017)
Lecturer	<b>Serious Gaming Seminar</b> , Utrecht University, Master’s in Business Informatics. This course introduces the notion of serious games and lets the students conduct research in the field by choosing a domain or a topic of choice (2013–2014, 2014–2015, 2015–2016)
Lecturer	<b>Organizations &amp; ICT</b> , Utrecht University, Bachelor in Information Science. This course introduces principles and techniques that help adequately employing information and communication technology within organizations (2013–2014, 2014–2015)
Lecturer	<b>Business Informatics Summer School</b> , Utrecht University, Master’s in Business Informatics. Course offered to a limited number of students who conducted research on smart cities, with a field study in Seoul and Songdo, Korea (2013–2014)
Lecturer and TA	<b>Organizational Information Systems</b> , University of Trento, Master in Computer Science, coordinator John Mylopoulos. This course presents the main techniques for modeling organizations and gives the foundations for designing information systems. I was responsible for the labs in 2009–2010, and I have taught most of the course (3/4 of the lectures) in (2010–2011, 2011–2012)
TA	<b>Agent-Oriented Software Engineering</b> , University of Trento, Master’s in Computer Science, taught by Prof. Paolo Giorgini. This course introduces the agent-oriented paradigm applied to software engineering. Labs coordinator (2008–2009, 2009–2010)

## Involvement in Scientific Events

### Organization

REFSQ 2018	Local Organization Chair of the 24th International Working Conference on Requirements Engineering: Foundation for Software Quality, Utrecht, Netherlands, March 19-22, 2018.
------------	--

- AIRE'17 General chair of the 4th International Workshop on Artificial Intelligence for Requirements Engineering (AIRE'17), co-located with the 25th IEEE International Requirements Engineering Conference, Lisbon, Portugal, September 4-5, 2017.
- REFSQ 2017 Posters and Tools Co-Chair of the 23rd International Working Conference on Requirements Engineering: Foundation for Software Quality, Essen, Germany, February 27, 2017.
- SAC 2017 Requirements Engineering Track co-chair of the 32nd ACM Symposium on Applied Computing, Marrakech, Morocco, April 3-7, 2017.
- AIRE'16 Co-organizer of the 3rd International Workshop on Artificial Intelligence for Requirements Engineering (AIRE'16), co-located with the 24th IEEE International Requirements Engineering Conference, Beijing, China, September 12, 2016.
- RCIS 2016 Doctoral Consortium Chair of the 10th International Conference on Research Challenges in Information Science, Grenoble, France, June 1–3, 2016.
- EMAS 2014 Co-organizer of the 2nd International Workshop on Engineering Multi-Agent Systems (EMAS 2014), co-located with the 13th International Conference on Autonomous Agents and Multiagent Systems, Paris, France, May 5–6, 2014.
- iStar'14 Co-organizer of the 7th International i\* Workshop (iStar14), co-located with the 26th International Conference on Advanced Information Systems Engineering (CAiSE'14), Thessaloniki, Greece, June 16–17, 2014.
- RESC'11 Co-organizer of the 1st International Workshop on Requirements Engineering for Social Computing (RESC'11), co-located with the 19th IEEE International Conference on Requirements Engineering, Trento, Italy, August 29, 2011.

### Steering Committee and Editorial Board

- RE Journal Editorial Board of the Requirements Engineering Journal, Springer, since 2017.
- REFSQ Steering Committee Member of the International Working Conference on Requirements Engineering: Foundation for Software Quality, 2017-2019.
- AIRE Steering Committee Member of the International Workshop on Artificial Intelligence for Requirements Engineering, since 2017.

### Program Committee

- RE International Requirements Engineering Conference: 2018.
- CAiSE International Conference on Advanced Information Systems Engineering: 2012–2016.
- AAMAS International Joint Conference on Autonomous Agents and Multi-agent Systems: 2015–2016, 2018.
- ER International Conference on Conceptual Modeling: 2014–2017.
- MODELS International Conference on Model Driven Engineering Languages and Systems, Foundations Track: 2015–2016.
- REFSQ International Working Conference on Requirements Engineering: Foundation for Software Quality: 2017.
- RE New ideas track of the International Requirements Engineering Conference (RE:Next!): 2016–2017.
- RCIS International Conference on Research Challenges in Information Science: 2012–2014, 2016–2017.
- SEAMS International Symposium on Software Engineering for Adaptive and Self-Managing Systems: 2013.
- ACM SAC Requirements Engineering Track of the ACM Symposium on Applied Computing: 2018.
- SCME Symposium on Conceptual Modeling Education: 2016.

- EMAS International Workshop on Engineering Multi-Agent Systems: 2014–2016.
- MISE International Workshop on Modeling in Software Engineering: 2015–2018.
- GAS International Workshop on Games and Software Engineering: 2016.
- ISSC International IEEE Symposium on Software Crowdsourcing: 2015.
- HotSoS International Symposium and Bootcamp on the Science of Security: 2014.
- FSEN International Conference on Fundamentals of Software Engineering: 2015.
- ICAART International Conference on Agents and Artificial Intelligence: 2013–2014.
- MS IEEE International Conference on Mobile Services: 2013.
- KEOD International Conference on Knowledge Engineering and Ontology Development: 2012, 2013.
- AICCSA International Conference on Computer Systems and Applications, “BPM, Web Services, SOA” track: 2013.
- CISIS Artificial Intelligence and Agent Technology track, International Conference on Complex, Intelligent, and Software Intensive Systems: 2012.
- ICCCI International Conference on Computational Collective Intelligence Technologies and Applications: 2012.
- REFSQ-P&D Posters & Demos track, International Working Conference on Requirements Engineering: Foundation for Software Quality: 2016.
- RE-Demos Posters & Demos track, International Conference on Requirements Engineering: 2013–2014.
- CAiSE Forum International Conference on Advanced Information Systems Engineering: 2013–2014.
- EmpiRE International Workshop on Empirical Requirements Engineering: 2017.
- MReBA International Workshop on Conceptual Modeling in Requirements and Business Analysis: 2016–2017.
- WAWSE Workshop on Alternative Workforces in Software Engineering: 2015.
- CrowdRE International Workshop on Crowd-Based Requirements Engineering: 2015, 2017.
- RESACS International Workshop on Requirements Engineering for Self-Adaptive and Cyber Physical Systems: 2015.
- SC-AAMAS International Workshop on Multiagent Foundations of Social Computing: 2014–2015.
- iStarT International iStar Teaching Workshop: 2015, 2017.
- iStar International i\* Workshop: 2011–2017.
- MReBA International Workshop on Conceptual Modeling in Requirements and Business Analysis: 2014–2017.
- RIGiM International Workshop on Requirements, Intentions and Goals in Conceptual Modeling: 2012–2013.
- QUAMES International Workshop on Quality and Measurement of Software Model-Driven Developments: 2013–2015.
- RRT International Workshop on Requirements@run.time: 2012.
- ESAS IEEE International Workshop on Engineering Semantic Agent Systems Workshop: 2012.
- SSE International Workshop on Social Software Engineering: 2011–2015.
- TouchTheWeb International Workshop on Web-Enabled Objects: 2010.

### Tutorials in Conferences

- ER 2016 iStar 2.0: A Guided Tour. Tutorial given at the 35th International Conference on Conceptual Modeling, Gifu, Japan, November 14, 2017

- RE'17 Security Requirements Engineering. Tutorial given at the 24th IEEE International Requirements Engineering Conference, Beijing, China, September 13, 2017
- CAiSE'13 Security Requirements Engineering for Socio-Technical Systems. Tutorial given at the 25th International Conference on Information Systems Engineering, Valencia, Spain, June 19, 2013
- RE'12 Security Requirements Engineering for Socio-Technical Systems. Tutorial given at the 20th International Requirements Engineering Conference, Chicago, Illinois, United States, September 27, 2012

## Reviewing

- Journals Computer (IEEE); Software (IEEE); Transactions on Software Engineering (IEEE); Transactions on Software Engineering and Methodology (ACM); Requirements Engineering (Springer); Information Systems (Elsevier); Journal of Systems and Software (Elsevier); Information and Software Technology (Elsevier); Software Practice and Experience (Wiley); Transactions on Internet Computing (ACM); Journal of Software Engineering Research and Development (Springer); International Journal of Agent-Oriented Software Engineering (Inderscience); International Journal of Information System Modeling and Design (IGI Global); IET Software (IET); Information Sciences (Elsevier); Behaviour & Information Technology (Taylor & Francis); Information Processing Letters (Elsevier); Software and Systems Modeling (Springer); Journal of Software Maintenance and Evolution: Research and Practice (Wiley); International Journal of Cooperative Information Systems (World Scientific).
- Conferences International Conference on Autonomous Agents and Multiagent Systems (AAMAS): 2008, 2010; International Conference on Conceptual Modeling (ER): 2008, 2010; International Conference on Advanced Information Systems Engineering (CAiSE): 2008, 2011; Fundamental Approaches to Software Engineering (FASE): 2009; International Working Conference on Requirements Engineering: Foundation for Software Quality (2014); International Conference on Service Oriented Computing (ICSOC): 2010; 20th International Conference on 3D Web Technology (Web3D): 2015; International Conference on Pervasive Computing (Pervasive): 2012; International Conference on Electronic Commerce and Web Technologies (EC-Web): 2010.
- Workshops International Workshop on Model-Based and Policy-Based Engineering in Information Security (MPEIS): 2011; Workshop on the Web and Requirements Engineering (WERE): 2010; International Workshop on Web-Enabled Objects (TouchTheWeb); iStar Workshop: 2010; Workshop on Requirements Engineering (WER): 2010; Special Track on Agent-Oriented Software Engineering Methodologies Infrastructures, and Processes at SAC (AOMIP): 2010; Self-Adaptation for Robustness and Cooperation in Holonic Multi-Agent Systems (SARC): 2008; From Agent Theory to Agent Implementation (AT2AI): 2008; Engineering Societies in the Agents World (ESAW): 2007; Pacific Rim International Workshop on Multi-Agents (PRIMA): 2007.

## Journal Papers

- [1] Estefanía Serral, Paolo Sernani, and Fabiano Dalpiaz. Personalized adaptation in pervasive systems via non-functional requirements. *Journal of Ambient Intelligence and Humanized Computing*, Nov 2017.
- [2] Eduard C. Groen, Norbert Seyff, Raian Ali, Fabiano Dalpiaz, Joerg Doerr, Emitza Guzman, Mahmood Hosseini, Jordi Marco, Marc Oriol, Anna Perini, and Melanie Stade. The Crowd in Requirements Engineering: The Landscape and Challenges. *IEEE Software*, 34(2):44–52, 2017.
- [3] Garm Lucassen, Marcel Robeer, Fabiano Dalpiaz, Jan Martijn E. M. van der Werf, and Sjaak Brinkkemper. Extracting conceptual models from user stories with visual narrator. *Requirements Engineering*, 22(3):339–358, 2017.
- [4] Mattia Salnitri, Fabiano Dalpiaz, and Paolo Giorgini. Designing Secure Business Processes with SecBPMN. *Software and Systems Modeling*, 16(3):737–757, 2017.



- [5] Garm Lucassen, Fabiano Dalpiaz, Jan Martijn E. M. van der Werf, and Sjaak Brinkkemper. Improving Agile Requirements: the Quality User Story Framework and Tool. *Requirements Engineering*, 21(3):383–403, 2016.
- [6] Elda Paja, Fabiano Dalpiaz, and Paolo Giorgini. Modelling and Reasoning about Security Requirements in Socio-Technical Systems. *Data and Knowledge Engineering*, 98:123–143, 2015.
- [7] Raian Ali, Fabiano Dalpiaz, and Paolo Giorgini. Requirements-Driven Deployment: Customizing the Requirements Model for the Host Environment. *Software and Systems Modeling*, 13(1):433–456, 2014.
- [8] Per Håkon Meland, Elda Paja, Erlend Andreas Gjære, Stéphane Paul, Fabiano Dalpiaz, and Paolo Giorgini. Threat Analysis in Goal-Oriented Security Requirements Modelling. *International Journal of Secure Software Engineering*, 5(2), 2014.
- [9] Kevin Vlaanderen, Fabiano Dalpiaz, Geurt van Tuijl, Sandor Spruit, and Sjaak Brinkkemper. Online Method Engine: a Toolset for Method Assessment, Improvement, and Enactment. *International Journal of Information System Modeling and Design*, 5(3):1–25, 2014.
- [10] Raian Ali, Fabiano Dalpiaz, and Paolo Giorgini. Reasoning with Contextual Requirements: Detecting Inconsistency and Conflicts. *Information and Software Technology*, 55(1):35–57, 2013.
- [11] Fabiano Dalpiaz, Paolo Giorgini, and John Mylopoulos. Adaptive Socio-Technical Systems: a Requirements-driven Approach. *Requirements Engineering*, 18(1):1–24, 2013.
- [12] Sandra Trösterer, Elke Beck, Fabiano Dalpiaz, Elda Paja, Paolo Giorgini, and Manfred Tschelegi. Formative User-Centered Evaluation of Security Modeling: Results from a Case Study. *International Journal of Secure Software Engineering*, 3(1):1–19, 2012.
- [13] Raian Ali, Fabiano Dalpiaz, and Paolo Giorgini. A Goal-based Framework for Contextual Requirements Modeling and Analysis. *Requirements Engineering*, 15(4):439–458, 2010.
- [14] Raian Ali, Fabiano Dalpiaz, and Paolo Giorgini. Modeling and Analyzing Location-based Requirements: Goal-oriented Approach. *International Journal of Computer Science and Software Technology*, 2(2):89–96, 2009.
- [15] Volha Bryl, Fabiano Dalpiaz, Roberta Ferrario, Andrea Mattioli, and Adolfo Villafiorita. Evaluating Procedural Alternatives: a Case Study in e-Voting. *Electronic Government, an International Journal*, 6(2):213–231, 2009.

## Conference Papers

- [16] Daniel Alami and Fabiano Dalpiaz. A Gamified Tutorial for Learning about Security Requirements Engineering. In *Proceedings of the 25th International Requirements Engineering Conference, RE:Next! Track (RE'17)*, 2017.
- [17] Garm Lucassen, Fabiano Dalpiaz, Jan Martijn van der Werf, and Sjaak Brinkkemper. Improving User Story Practice with the Grimm Method: A Multiple Case Study in the Software Industry. In *Proceedings of the 23rd International Working Conference on Requirements Engineering: Foundation for Software Quality (REFSQ'17)*, volume 10153 of LNCS, pages 235–252, 2017.
- [18] Paolo Sernani, Aldo Franco Dragoni, Estefanía Serral, and Fabiano Dalpiaz. Contextual Requirements Prioritization and its Application to Smart Homes. In *Proceedings of the European Conference on Ambient Intelligence (Ami-17)*, 2017.
- [19] Evellin Cardoso, Katsiaryna Labunets, Fabiano Dalpiaz, John Mylopoulos, and Paolo Giorgini. Modeling Structured and Unstructured Processes: An Empirical Evaluation. In *Proceedings of the 35th International Conference on Conceptual Modeling (ER 2016)*, volume 9974 of LNCS, pages 347–361, 2016.
- [20] Philipp Lombriser, Fabiano Dalpiaz, Garm Lucassen, and Sjaak Brinkkemper. Gamified Requirements Engineering: Model and Experimentation. In *Proceedings of the 22nd International Work-*



- ing Conference on Requirements Engineering: Foundation for Software Quality (REFSQ'16), volume 9619 of LNCS, pages 171–187, 2016.
- [21] Garm Lucassen, Fabiano Dalpiaz, Jan Martijn van der Werf, and Sjaak Brinkkemper. The Use and Effectiveness of User Stories in Practice. In *Proceedings of the 22nd International Working Conference on Requirements Engineering: Foundation for Software Quality (REFSQ'16)*, volume 9619 of LNCS, pages 205–222, 2016.
  - [22] Garm Lucassen, Fabiano Dalpiaz, Jan Martijn van der Werf, and Sjaak Brinkkemper. Visualizing User Story Requirements at Multiple Granularity Levels via Semantic Relatedness. In *Proceedings of the 35th International Conference on Conceptual Modeling (ER 2016)*, volume 9974 of LNCS, pages 463–478. Springer, 2016.
  - [23] Marcel Robeer, Garm Lucassen, Jan Martijn van der Werf, Fabiano Dalpiaz, and Sjaak Brinkkemper. Automated Extraction of Conceptual Models from User Stories via NLP. In *Proceedings of the 24th IEEE International Requirements Engineering Conference (RE'16)*, pages 196–205. IEEE, 2016.
  - [24] Jan Strien, Ronald Batenburg, and Fabiano Dalpiaz. Designing a Serious Game for General Practice Management. In *Proceedings of the DiGRA and FDG First Joint International Conference (DiGRA/FDG 2016)*, volume 13, 2016.
  - [25] Fabiano Dalpiaz, Evellin Cardoso, Giulia Canobbio, Paolo Giorgini, and John Mylopoulos. Social Specifications of Business Processes with Azzurra. In *Proceedings of the IEEE Ninth International Conference on Research Challenges in Information Science (RCIS 2015)*. IEEE, 2015. Best Paper Award, selected among 199 submissions.
  - [26] Fabiano Francesconi, Fabiano Dalpiaz, and John Mylopoulos. Modeling Strategic Business Plans: the Montreux Jazz Festival Case Study. In *Proceedings of the IEEE Ninth International Conference on Research Challenges in Information Science (RCIS 2015)*. IEEE, 2015.
  - [27] Remko Helms, Rick Barneveld, and Fabiano Dalpiaz. A Method for the Design of Gamified Trainings. In *Proceedings of the 19th Pacific Asia Conference on Information Systems (PACIS 2015)*. AIS, 2015.
  - [28] Mahmood Hosseini, Alimohammad Shahri, Keith Phalp, Jacqui Taylor, Raian Ali, and Fabiano Dalpiaz. Configuring Crowdsourcing for Requirements Elicitation. In *Proceedings of the IEEE Ninth International Conference on Research Challenges in Information Science (RCIS 2015)*. IEEE, 2015.
  - [29] Garm Lucassen, Fabiano Dalpiaz, Jan Martijn van der Werf, and Sjaak Brinkkemper. Forging High-Quality User Stories: Towards a Discipline for Agile Requirements. In *Proceedings of the 23rd IEEE International Requirements Engineering Conference (RE 2015)*. IEEE, 2015. Acceptance rate: 19.8%, invited for special issue.
  - [30] Bill Roungas and Fabiano Dalpiaz. A Model-driven Framework for Educational Game Design. In *Proceedings of the Games and Learning Alliance Conference (GALA Conf 2015)*, 2015.
  - [31] Paolo Sernani, Fabiano Dalpiaz, Aldo Franco Dragoni, and Sjaak Brinkkemper. Smart Tales: An Awareness Game for Ambient Assisted Living. In *Proceedings of the European Conference on Ambient Intelligence (Ami-15)*, 2015.
  - [32] Floor Aarnoutse, Linda Peursum, and Fabiano Dalpiaz. The Evolution of Advergaming Development: A Study in the Netherlands. In *Proceedings of the 6th IEEE International Consumer Electronics Society Games, Entertainment, Media Conference (IEEE GEM 2014)*. IEEE, 2014.
  - [33] Fatma Başak Aydemir, Fabiano Dalpiaz, Paolo Giorgini, and John Mylopoulos. Exploring Alternative Designs of Sociotechnical Systems. In *Proceedings of the IEEE 8th International Conference on Research Challenges in Information Science (RCIS'14)*. IEEE, 2014.
  - [34] Amit K. Chopra, Fabiano Dalpiaz, Fatma Başak Aydemir, Paolo Giorgini, John Mylopoulos, and Munindar P. Singh. Protos: Foundations for Engineering Innovative Sociotechnical Systems. In *Proceedings of the 22nd IEEE International Requirements Engineering Conference (RE'14)*. IEEE, 2014.

- [35] Mattia Salnitri, Fabiano Dalpiaz, and Paolo Giorgini. Modeling and Verifying Security Policies in Business Processes. In *Proceedings of the 15th International Working Conference on Business Process Modeling, Development, and Support (BPMDS'14)*, volume 175 of *LNBIP*, pages 200–214. Springer, 2014. Invited for special issue.
- [36] Kevin Vlaanderen, Fabiano Dalpiaz, and Sjaak Brinkkemper. Finding Optimal Plans for Incremental Method Engineering. In *Proceedings of the 26th International Conference on Advanced Information Systems Engineering (CAiSE'14)*, volume 8484 of *LNCS*, pages 640–655. Springer, 2014. Acceptance rate: 18.1%.
- [37] Fabiano Francesconi, Fabiano Dalpiaz, and John Mylopoulos. TBIM: A Language for Modeling and Reasoning about Business Plans. In *Proceedings of the 32nd International Conference on Conceptual Modeling (ER 2013)*, volume 8217 of *LNCS*, pages 33–46, 2013. Acceptance rate: 18.3%.
- [38] 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)*, volume 8217 of *LNCS*, pages 270–283, 2013. Acceptance rate: 18.3%, invited for special issue.
- [39] Raian Ali, Alberto Griggio, Anders Franzén, Fabiano Dalpiaz, and Paolo Giorgini. Optimizing Monitoring Requirements in Self-Adaptive Systems. In *Proceedings of the 17th International Conference on Exploring Modeling Methods in Systems Analysis and Design (EMMSAD 2012)*, volume 113 of *LNBIP*, pages 362–377. Springer, 2012.
- [40] Fabiano Dalpiaz, Raian Ali, and Paolo Giorgini. Aligning Software Configuration with Business and IT Context. In *Proceedings of the 24th International Conference on Advanced Information Systems Engineering (CAiSE'12)*, volume 7328 of *LNCS*, pages 206–221. Springer, 2012. Acceptance rate: 14%.
- [41] Fabiano Dalpiaz, Estefanía Serral, Pedro Valderas, Paolo Giorgini, and Vicente Pelechano. A NFR-based Framework for User-Centered Adaptation. In *Proceedings of the 31st International Conference on Conceptual Modeling (ER 2012)*, volume 7532 of *LNCS*, pages 439–448. Springer, 2012.
- [42] Mattia Salnitri, Fabiano Dalpiaz, and Paolo Giorgini. Aligning Service-Oriented Architectures with Security Requirements. In *Proceedings of the 20th International Conference on Cooperative Information Systems (CoopIS 2012)*, volume 7565 of *LNCS*, pages 232–249, 2012.
- [43] Raian Ali, Fabiano Dalpiaz, Paolo Giorgini, and Vitor E. Silva Souza. Requirements Evolution: From Assumptions to Reality. In *Proceedings of the 16th International Conference on Exploring Modeling Methods in Systems Analysis and Design (EMMSAD 2011)*, volume 81 of *LNBIP*, pages 372–382. Springer, 2011.
- [44] Amit K. Chopra, Fabiano Dalpiaz, Paolo Giorgini, and John Mylopoulos. Modeling and Reasoning about Service-Oriented Applications via Goals and Commitments. In *Proceedings of 22nd International Conference on Advanced Information Systems Engineering (CAiSE'10)*, volume 6051 of *LNCS*, pages 113–128. Springer, 2010. Acceptance rate: 11.8%.
- [45] Amit K. Chopra, Fabiano Dalpiaz, Paolo Giorgini, and John Mylopoulos. Reasoning about Agents and Protocols via Goals and Commitments. In Wiebe van der Hoek, Gal A. Kaminka, Yves Lespérance, Michael Luck, and Sandip Sen, editors, *Proceedings of the 9th International Conference on Autonomous Agents and Multiagent Systems (AAMAS 2010)*, pages 457–464. IFAAMAS, 2010. Acceptance rate: 23.7%.
- [46] Fabiano Dalpiaz, Amit K. Chopra, Paolo Giorgini, and John Mylopoulos. Adaptation in Open Systems: Giving Interaction its Rightful Place. In *Proceedings of the 29th International Conference on Conceptual Modeling (ER 2010)*, volume 6412 of *LNCS*, pages 31–45. Springer, 2010. Acceptance rate: 20.4%.
- [47] Jose Luis de la Vara, Raian Ali, Fabiano Dalpiaz, Juan Sanchez, and Paolo Giorgini. Business Process Contextualisation via Context Analysis. In *Proceedings of the 29th International*

*Conference on Conceptual Modeling (ER 2010)*, volume 6412 of *LNCS*, pages 471–476, 2010. Acceptance rate: 20.4%.

- [48] Jose Luis de la Vara, Raian Ali, Fabiano Dalpiaz, Juan Sanchez, and Paolo Giorgini. COMPRO: A Methodological Approach for Business Process Contextualisation. In *Proceedings of the 18th International Conference on Cooperative Information Systems (CoopIS 2010)*, volume 6426 of *LNCS*, pages 132–149, 2010. Acceptance rate: 19.6%.
- [49] Pavel Shvaiko, Luca Mion, Fabiano Dalpiaz, and Giuseppe Angelini. The TasLab portal for collaborative innovation. In *Proceedings of the 16th International Conference on Concurrent Enterprising (ICE 2010)*, 2010.
- [50] Raian Ali, Fabiano Dalpiaz, and Paolo Giorgini. A Goal Modeling Framework for Self-Contextualizable Software. In *Proceedings of the 14th International Conference on Exploring Modeling Methods in Systems Analysis and Design (EMMSAD 2009)*, volume 29 of *LNBIP*, pages 326–338. Springer, 2009.
- [51] Fabiano Dalpiaz, Paolo Giorgini, and John Mylopoulos. An Architecture for Requirements-Driven Self-Reconfiguration. In *Proceedings of the 21st International Conference on Advanced Information Systems Engineering (CAiSE'09)*, volume 5565 of *LNCS*, pages 246–260. Springer, 2009. Acceptance rate: 15%.
- [52] Fabiano Dalpiaz, Paolo Giorgini, and John Mylopoulos. Software Self-Reconfiguration: a BDI-based Approach. In *Proceedings of the 8th International Conference on Autonomous Agents and Multiagent Systems (AAMAS 2009)*, pages 1159–1160. IFAAMAS, 2009.
- [53] Raian Ali, Fabiano Dalpiaz, and Paolo Giorgini. Location-based Software Modeling and Analysis: Tropos-based Approach. In Qing Li, Stefano Spaccapietra, Eric Yu, and Antoni Olivé, editors, *Proceedings of the 27th International Conference on Conceptual Modeling (ER 2008)*, volume 5231 of *LNCS*, pages 169–182. Springer, 2008. Acceptance rate: 25%.
- [54] Raian Ali, Fabiano Dalpiaz, and Paolo Giorgini. Location-based Variability for Mobile Information Systems. In Zohra Bellahsene and Michel Léonard, editors, *Proceedings of the 20th International Conference on Advanced Information Systems Engineering (CAiSE'08)*, volume 5074 of *LNCS*, pages 575–578. Springer, 2008. Acceptance rate: 16%.
- [55] Raian Ali, Fabiano Dalpiaz, and Paolo Giorgini. Modeling and Analyzing Variability for Mobile Information Systems. In *Proceedings of the 2008 International Conference on Computer Science and its Applications (ICCSA 2008)*, volume 5072 of *LNCS*, pages 291–306, 2008.
- [56] Volha Bryl, Fabiano Dalpiaz, Roberta Ferrario, Andrea Mattioli, and Adolfo Villafiorita. Evaluating Procedural Alternatives. A Case Study in e-Voting. In *Proceedings of the 1st International Conference on Methodologies, Technologies and Tools enabling e-Government (MeTTeG 07)*, 2007.

---

## Books

- [57] Fabiano Dalpiaz, Elda Paja, and Paolo Giorgini. *Security Requirements Engineering: Designing Secure Socio-Technical Systems*. Information Systems Series. MIT Press, 2016.
- [58] Achim D. Brucker, Fabiano Dalpiaz, Paolo Giorgini, Per Håkon Meland, and Erkuden Rios. *Secure and Trustworthy Service Composition*, volume 8900 of *LNCS*. Springer, 2014.
- [59] Fabiano Dalpiaz, Jürgen Dix, and M. Birna van Riemsdijk. *Engineering Multi-Agent Systems: Second International Workshop, Revised Selected Papers*, volume 8758 of *LNAI*. Springer, 2014.

---

## Invited Papers

- [60] Fabiano Dalpiaz, Vitor E. Silva Souza, and John Mylopoulos. The Many Faces of Operationalization in Goal-Oriented Requirements Engineering. In *Proceedings of the Tenth Asia-Pacific Conference on Conceptual Modelling (APCCM 2014)*, 2014. Invited paper.
- [61] Fabiano Dalpiaz, Alexander Borgida, Jennifer Horkoff, and John Mylopoulos. Runtime Goal

Models. In *Proceedings of the 7th IEEE International Conference on Research Challenges in Information Science (RCIS 2013)*, 2013. Invited paper.

---

## Book Chapters

- [62] Fabiano Dalpiaz, Remco Snijders, Sjaak Brinkkemper, Mahmood Hosseini, Alimohammad Shahri, and Raian Ali. Engaging the crowd of stakeholders in requirements engineering via gamification. In Stefan Stieglitz, Christoph Lattemann, Susanne Robra-Bissantz, Rüdiger Zarnekow, and Tobias Brockmann, editors, *Gamification: Using Game Elements in Serious Contexts*, volume 8431 of *Progress in IS*, pages 123–135. Springer, 2017.
- [63] Per Håkon Meland, Muhammad Asim, Dhouha Ayed, Fabiano Dalpiaz, Edith Félix, Paolo Giorgini, Susana Gonzáles, Brett Lempereur, and John Ronan. *Security and Trustworthiness Threats to Composite Services: Taxonomy, Countermeasures, and Research Directions*, pages 10–35. 2014.
- [64] Mirko Morandini, Fabiano Dalpiaz, Cu Duy Nguyen, and Alberto Siena. The Tropos Software Engineering Methodology. In Massimo Cossentino, Vincent Hilaire, Ambra Molesini, and Valeria Seidita, editors, *Handbook on Agent-Oriented Design Processes*. Springer, 2014.
- [65] Elda Paja, Fabiano Dalpiaz, and Paolo Giorgini. *The Socio-technical Security Requirements Modelling Language for Secure Composite Services*, pages 63–78. Springer International Publishing, Cham, 2014.
- [66] Elda Paja, Fabiano Dalpiaz, and Paolo Giorgini. Sts-tool: Security requirements engineering for socio-technical systems. In Maritta Heisel, Wouter Joosen, Javier Lopez, and Fabio Martinelli, editors, *Engineering Secure Future Internet Services and Systems*, volume 8431 of *LNCS*, pages 65–96. Springer, 2014.
- [67] Fabiano Dalpiaz, Amit K. Chopra, John Mylopoulos, and Paolo Giorgini. From Intentions to Social Commitments: Adaptation in Multiagent Systems. In Gerhard Lakemeyer and Sheila A. McIlraith, editors, *Knowing, Reasoning, and Acting: Essays in Honour of Hector J. Levesque*. College Publications, 2011.
- [68] Amit K. Chopra, John Mylopoulos, Fabiano Dalpiaz, Paolo Giorgini, and Munindar P. Singh. Requirements as Goals and Commitments too. In Selmin Nurcan, Camille Selinesi, Jolita Ralyte, and Carine Souveyet, editors, *Intentional Perspectives on Information Systems Engineering*, chapter 8, pages 137–153. Springer, 2010.

---

## ePrints (arXiv.org, . . .)

- [69] Fabiano Dalpiaz, Xavier Franch, and Jennifer Horkoff. iStar 2.0 language guide. arXiv:1605.07767 [cs.SE], 2016.

---

## Workshop Papers and Demonstrations

- [70] Fatma Başak Aydemir and Fabiano Dalpiaz. Towards Aligning Multi-Concern Models via NLP. In *Proceedings of the International Model-Driven Requirements Engineering (MoDRE-RE 2017)*, 2017.
- [71] Garm Lucassen, Fabiano Dalpiaz, Jan Martijn van der Werf, Sjaak Brinkkemper, and Didar Zowghi. Behavior-Driven Requirements Traceability via Automated Acceptance Tests. In *Proceedings of the Just-in-Time RE Workshop (JITRE-2017)*, 2017.
- [72] Lidia López, Fatma Başak Aydemir, Fabiano Dalpiaz, and Jennifer Horkoff. An Empirical Evaluation Roadmap for iStar 2.0. In *Proceedings of the Ninth International i\* Workshop (istar'16)*, 2016.
- [73] Garm Lucassen, Fabiano Dalpiaz, Jan Martijn van der Werf, and Sjaak Brinkkemper. AQUASA: The Automatic Quality User Story Artisan for Agile Software Development. In *Proceedings of the Posters & Demos Track of the International Working Conference on Requirements Engineering: Foundations for Software Quality (REFSQ P&D 2016)*, 2016.

- [74] Marsha Chechik, Fabiano Dalpiaz, Csaba Debrecei, Jennifer Horkoff, István Ráth, Rick Salay, and Daniel Varró. Property-Based Methods for Collaborative Model Development. In *Proceedings of the 3rd International Workshop on The Globalization of Modeling Languages (GEMOC 2015)*, 2015.
- [75] Fabiano Dalpiaz. Teaching Goal Modeling in Undergraduate Education. In *Proceedings of the First International iStar Teaching Workshop (iStarT'15)*, 2015.
- [76] Fabiano Dalpiaz, Michal Korenko, Rick Salay, and Marsha Chechik. Using the Crowds to Satisfy Unbounded Requirements. In *Proceedings of the First International Workshop on Crowd-Based Requirements Engineering (CrowdRE 2015)*, 2015.
- [77] Garm Lucassen, Fabiano Dalpiaz, Jan Martijn van der Werf, and Sjaak Brinkkemper. Bridging the Twin Peaks: the Case of the Software Industry. In *Proceedings of the Fifth International Workshop on the Twin Peaks of Requirements and Architecture (TwinPeaks 2015)*, 2015.
- [78] Rick Salay, Fabiano Dalpiaz, and Marsha Chechik. Integrating Crowd Intelligence into Software. In *Proceedings of the Second International Workshop on Crowdsourcing in Software Engineering (CSI-SE)*, 2015.
- [79] Remco Snijders, Fabiano Dalpiaz, Sjaak Brinkkemper, Mahmood Hosseini, Raian Ali, and Atilla Özüm. REfine: A Gamified Platform for Participatory Requirements Engineering. In *Proceedings of the First International Workshop on Crowd-Based Requirements Engineering (CrowdRE 2015)*, 2015.
- [80] Malik Almaliki, Nan Jiang, Fabiano Dalpiaz, and Raian Ali. Gamified Culture-aware Feedback Acquisition. In *Proceedings of the Second International Workshop on Crowdsourcing and Gamification in the Cloud (CGCloud 2014)*, 2014.
- [81] Alimohammad Shahri, Mahmood Hosseini, Raian Ali, and Fabiano Dalpiaz. Gamification for Volunteer Cloud Computing. In *Proceedings of the Second International Workshop on Crowdsourcing and Gamification in the Cloud (CGCloud 2014)*, 2014.
- [82] Remco Snijders, Fabiano Dalpiaz, Mahmood Hosseini, Alimohammad Shahri, and Raian Ali. Crowd-Centric Requirements Engineering. In *Proceedings of the Second International Workshop on Crowdsourcing and Gamification in the Cloud (CGCloud 2014)*, 2014.
- [83] Kevin Vlaanderen, Sandor Spruit, Fabiano Dalpiaz, and Sjaak Brinkkemper. Demonstration of the Online Method Engine. In *Forum of the 26th International Conference on Advanced Information Systems Engineering (CAISE'14 Forum)*, volume 1164 of *CEUR-WS*, pages 169–176, 2014.
- [84] Alexander Borgida, Fabiano Dalpiaz, Jennifer Horkoff, and John Mylopoulos. Requirements Models for Design- and Runtime: a Position Paper. In *Proceedings of the 5th International Workshop on Modeling in Software Engineering (MISE 2013)*, 2013.
- [85] Fabiano Dalpiaz, Daniele Barone, Jennifer Horkoff, Lei Jiang, and John Mylopoulos. BIM-Tool: Modeling and Reasoning Support for Strategic Business Models. In *Proceedings of the Sixth International i\* Workshop (istar'13)*, 2013.
- [86] Elda Paja, Fabiano Dalpiaz, and Paolo Giorgini. Designing Secure Socio-Technical Systems with STS-ml. In *Proceedings of the Sixth International i\* Workshop (istar'13)*, 2013.
- [87] 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 on Conceptual Modeling (ER 2013 Workshops)*, volume 8217 of *LNCS*, pages 504–507, 2013.
- [88] Elda Paja, Fabiano Dalpiaz, Mauro Poggianella, Pierluigi Roberti, and Paolo Giorgini. STS-Tool: Specifying and Reasoning over Socio-Technical Security Requirements. In *Proceedings of the Sixth International i\* Workshop (istar'13)*, 2013.

- [89] Elda Paja, Fabiano Dalpiaz, Mauro Poggianella, Pierluigi Roberti, and Paolo Giorgini. Modelling Security Requirements in Socio-Technical Systems with STS-Tool. In *Forum of the 24th International Conference on Advanced Information Systems Engineering (CAiSE'12 Forum)*, volume 855 of *CEUR-WS*, pages 155–162, 2012.
- [90] Elda Paja, Fabiano Dalpiaz, Mauro Poggianella, Pierluigi Roberti, and Paolo Giorgini. STS-Tool: Socio-Technical Security Requirements through Social Commitments. In *Proceedings of the Posters & Demos Track of the 20th International IEEE Conference on Requirements Engineering (RE'12)*, pages 331–332. IEEE, 2012.
- [91] Elda Paja, Fabiano Dalpiaz, Mauro Poggianella, Pierluigi Roberti, and Paolo Giorgini. STS-Tool: Using Commitments to Specify Socio-Technical Security Requirements. In *Proceedings of the 31st International Conference on Conceptual Modeling - Workshops (ER'12 Workshops)*, volume 7518 of *LNCS*, pages 396–399. Springer, 2012.
- [92] Raian Ali, Carlos Solis, Fabiano Dalpiaz, Walid Maalej, Paolo Giorgini, and Bashar Nuseibeh. Social Software Product Lines. In *Proceedings of the 1st International Workshop on Requirements Engineering for Social Computing (RESC'11)*, 2011.
- [93] Fabiano Dalpiaz. Social Threats and the New Challenges for Requirements Engineering. In *Proceedings of the 1st International Workshop on Requirements Engineering for Social Computing (RESC'11)*, 2011.
- [94] Fabiano Dalpiaz, Elda Paja, and Paolo Giorgini. Security Requirements Engineering for Service-Oriented Applications. In *Proceedings of the Fifth International i\* Workshop (istar'11)*, 2011.
- [95] Fabiano Dalpiaz, Elda Paja, and Paolo Giorgini. Security Requirements Engineering via Commitments. In *Proceedings of the First Workshop on Socio-Technical Aspects in Security and Trust (STAST'11)*, pages 1–8, 2011.
- [96] Raian Ali, Amit K. Chopra, Fabiano Dalpiaz, Paolo Giorgini, John Mylopoulos, and Vitor E. Silva Souza. The Evolution of Tropos: Contexts, Commitments and Adaptivity. In *Proceedings of the Fourth International i\* Workshop (istar'10)*, volume 586 of *CEUR-WS*, pages 15–19, 2010.
- [97] Raian Ali, Fabiano Dalpiaz, and Paolo Giorgini. Goal-based Self-Contextualization. In *Forum of the 21st International Conference on Advanced Information Systems Engineering (CAiSE'09 Forum)*, volume 453 of *CEUR-WS*, pages 37–42, 2009.
- [98] Fabiano Dalpiaz, Raian Ali, Yudistira Asnar, Volha Bryl, and Paolo Giorgini. Applying Tropos to Socio-Technical System Design and Runtime Configuration. In *Proceedings of the 9th Workshop on Objects and Agents (WOA08)*, pages 101–107, 2008.
- [99] Fabiano Dalpiaz, Ambra Molesini, Mariachiara Puviani, and Valeria Seidita. Towards Filling the Gap between AOSE Methodologies and Infrastructures: Requirements and Meta-model. In *Proceedings of the 9th Workshop on Objects and Agents (WOA08)*, pages 115–121, 2008.

Utrecht, December 4, 2017