

Fabiano Dalpiaz

Curriculum Vitae

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Personal Information

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Current Position

05/2023–
now Full professor of software production in the Department of Information and Computing Sciences at Utrecht University. My research focuses on the theory and practice of requirements engineering, the discipline that focuses on the process that translates informal stakeholder needs to precise program specification. I study how to devise theoretically well-founded algorithms and tools that blend artificial intelligence techniques with information visualization in order to increase the quality of the requirements engineering process and artifacts. My research is often validated through collaborations in the software industry.

Previous Academic Experience

1/2022–
4/2023 **Associate Professor**, *Department of Information and Computing Sciences*, Netherlands, Utrecht University.
9/2013–
12/2021 **Assistant Professor**, *Department of Information and Computing Sciences*, Netherlands, Utrecht University.
7/2012–
8/2013 **Post-doctoral fellow**, *Department of Computer Science*, Canada, University of Toronto.
2/2011–
7/2012 **Post-doctoral researcher**, *Department of Information Engineering and Computer Science*, Italy, University of Trento.

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 in Computer Science**, *University of Trento*, Italy, cum laude.

Honors and Awards

These are also highlighted throughout the resume with the symbol ☆.

- Distinguished papers** Twelve conference papers were selected among the best ones and invited for a journal publication: i) REFSQ'22 [c6] ii) RE'21 [c10] iii) REFSQ'20 [c15] iv) REFSQ'20 [c14] v) RE'19 [c17] vi) REFSQ'19 [c20] vii) RE'18 [c22]; viii) REFSQ'18 [c23]; ix) RE 2016 [c29]; x) RE 2015 [c36] ; xi) BPMDS'14 [c44]; and xii) ER 2013 [c46].
- Best paper** Two conference papers received a **best paper award**: i) RE'21 Industrial Innovation [c10], ii) RCIS 2015 [c37].
- Teaching** Four of my courses received a total of six **teaching quality awards** within the courses offered by the department in a given term: Requirements Engineering (2018–2019), Information Security (2016–2017 and 2020–2021), Serious Gaming Seminar (2013–2014 and 2015–2016), and Game Production (2013–2014).
- Invited talks** I personally gave four invited talks: i) Workshop on Natural Language Processing for Requirements Engineering (NLP4RE 2023); ii) International Workshop on Artificial Intelligence & Requirements Engineering (AIRE 2022); iii) International Workshop on Crowd-based Requirements Engineering (CrowdRE 2021); and iv) International Workshop for Natural Language Processing Advancements for Software Engineering (NLPaSE 2020).
Also, my research was presented by co-authors in three other invited talks: i) Asia-Pacific Conference on Conceptual Modelling (APCCM 2014) [i2]; ii) IEEE International Conference on Research Challenges in Information Science (RCIS 2013) [i7]; and iii) iStar 2016 Workshop.
- Students** The PhD thesis by Garm Lucassen received a PhD thesis award in 2018 from VERSEN - the Dutch National Association for Software Engineering.
- RE@40** Personal invitation to the RE@40 Seminar: Forty Years of Requirements Engineering—Looking Forward and Looking Back—organized by Marting Glinz, Xavier Franch, Roel Wieringa—held in Kappel am Albis, Switzerland, 2017.
- Service** Associate editor of the BIASE Journal and of the RE Journal. Best PC member at AAMAS 2020 (3 awardees out of 318 PC members). Distinguished PC member at ICSE'24, ICSE'21, ICSE'22 NIER, RE'19, and BESC'20. Distinguished Reviewers Board of ACM TOSEM and ACM TAAS.

Supervision

PhD Students

- 3/2020– **Tjerk Spijkman**, *Utrecht University*, Netherlands, Identifying and Extracting Requirements from Requirements Elicitation Sessions.
Co-promotor, promotor: Sjaak Brinkkemper.
Expected graduation: 2024
- 10/2019– **Sabine Molenaar**, *Utrecht University*, Netherlands, Requirements Engineering for Software Architecture.
Co-promotor, promotor: Sjaak Brinkkemper.
Expected graduation: 2024
- 9/2018– **Eduard C. Groen**, *Utrecht University*, Netherlands, Crowd-based Requirements Engineering.
Co-promotor with Jörg Dörr, promotor: Sjaak Brinkkemper.
Expected graduation: 2023
- 1/2017– **Davide Dell'Anna**, *Utrecht University*, Netherlands, Data-Driven Supervision of Autonomous Systems.
Co-promotor, promotors: Mehdi Dastani and Sjaak Brinkkemper.
Graduation date: March 10, 2021

- 9/2014–11/2017 **Garm Lucassen**, *Utrecht University*, Netherlands, Understanding User Stories: Computational Linguistics in Agile Requirements Engineering .
Co-promotor, promotor: Sjaak Brinkkemper.
Graduation date: November 30, 2017
- 9/2013–10/2014 **Kevin Vlaanderen**, *Utrecht University*, Netherlands, Supporting Process Improvement using Method Increments.
Co-promotor, promotor: Sjaak Brinkkemper.
Graduation date: December 11, 2014
- 11/2010–5/2014 **Elda Paja**, *University of Trento*, Italy, STS: A Security Requirements Engineering Methodology for Socio-Technical Systems.
Unofficial co-promotor, promotor: Paolo Giorgini.
Graduation date: May 2021
- 5/2016–8/2018 **Fatma Başak Aydemir**, *Utrecht University*, Netherlands.
Research related to the PACAS H2020 project and to automated requirements engineering.

Research Projects

Funded Projects

- AUTOLINK** Automated Unobtrusive Techniques for LINKing requirements and testing in agile software development—funded by NWO TTW under the **Open Technology Programme** scheme, 272k€ awarded to Utrecht University, overall budget 691k€. AUTOLINK builds and experiments with automated software tools that (i) establish a set of trace links between requirements and software, via natural language processing; (ii) enable the effortless testing of requirements, through automated scriptless testing; and (iii) increase the value over time by improving trace link accuracy and test effectiveness, via machine learning (2022–2026).
- PACAS** Participatory Architectural Change Management in Air Traffic Management (ATM) Systems—funded by the European Commission under the **Horizon 2020** scheme, 247k€ awarded to Utrecht University, overall budget 1M€—about the participatory architectural evolution of ATM systems. The project delivers a change management process where stakeholders actively participate in the architectural evolution of ATM systems, based on (i) domain-specific modeling languages to; (ii) impact propagation techniques; (iii) gamification to foster collaboration (2016–2018).

Participation

- BIN** Business Intelligence Network (NSERC Canada), devising a modeling language for strategic business models (2012–2013).
- Aniketos** Ensuring Trustworthiness and Security in Service Composition (EU FP7), design of the STS-ml language for the design of secure and trustworthy service compositions (2010–2013).
- Lucretius** Foundations for Software Evolution (ERC Advanced Investigator Grant awarded by Prof. John Mylopoulos), the Azzurra executable modeling language for business processes (2011–2013).
- MEnSA** Methodologies for the Engineering of complex software Systems: Agent-based approach (Italian Ministry for Education, University, and Research), construction of an integrated agent-oriented software engineering method for developing complex software systems (2007–2008).
- SERENITY** System Engineering for Security and Dependability (EU FP6), work related to the Secure Tropos modeling language (2006–2009).

Tools

My research often leads to software tool prototypes that are developed by me and by my students. Many of these tools are available online and open source.

- LCDTrace** A trace link recovery tool between JIRA issues and model changes from a Mendix SVN [c6, j4]. Lead developer: Randell Rasiman. URL: <https://github.com/RELabUU/LCDTrace>

- RE-SWOT A dashboard that helps find requirements from similar apps in the market [c20]. Lead developer: Micaela Parente. URL: <https://github.com/RELabUU/RE-SWOT>
- BakeRE An educational serious game that helps learn user stories and acceptance criteria through a mobile phone game [c18]. Lead developer: Merle Delen. URL: <https://github.com/YinUkume/BakeRE>
- REVV-Light An information visualization tool for detecting terminological ambiguity in user stories [c23, j14]. Lead developer: Ivor van der Schalk. URL: <https://github.com/RELabUU/revv-light>
- Interactive Narrator Information visualization techniques for user stories [c32] starting from the outputs of the Visual Narrator. Lead developer: Govert-Jan Slob. URL: <https://github.com/Gionimo/InteractiveNarrator>
- Visual Narrator Extracts conceptual models from user story requirements, based on NLP heuristics [c29]. Lead developer: Marcel Robeer. URL: <https://github.com/MarcelRobeer/VisualNarrator>
- AQUSA The Automatic Quality User Story Artisan tool uses NLP to identify flaws in the linguistic structure of user story requirements. Lead developer: Garm Lucassen. URL: <https://github.com/gglucass/AQUSA>. I then turned AQUSA into a command-line version too, URL: <https://github.com/RELabUU/aqusa-core>
- STS-Tool Support tool for security requirements modeling and automated reasoning with the STS-ml language [w31, w29, b4]. Lead developer: Mauro Poggianella. URL: <https://www.sts-tool.eu>
- 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: www.cs.toronto.edu/~jm/bim
- FM-Context Support tool for modeling and automated analysis of contextual feature models [c50]. Reasoning used a disjunctive Datalog reasoner. URL: <https://bit.ly/2TBOe1z>
- GCAdapt Simulator for requirements-driven adaptive agents based on the goals & commitments approach [c53]. GCAdapt makes use of a SAT-based automated solver. URL: <https://bit.ly/3cZQibk>

Education

Management

- Program Leader Strategic guidance of the Master's in Business Informatics at Utrecht University, circa 60 students per year (2020-2022)
- Thesis Coordinator Supporting staff and students of the Master's in Business Informatics at Utrecht University before and during the thesis projects (2014-2019)

Teaching

- Coordinator & Lecturer **Requirements Engineering**, Utrecht University, Master's in Business Informatics, 40–60 students. This course teaches basics and state-of-the-art techniques in requirements engineering (2017–2018, 2018–2019 ☆, 2019–2020, 2020–2021, 2021–2022, 2022–2023)
- Coordinator & Lecturer **Method Engineering**, Utrecht University, Master's in Business Informatics, 60–70 students. This course teaches basics and state-of-the-art techniques in method engineering (2022–2023)
- Coordinator & Lecturer **Game Production**, Utrecht University, Master's in Business Informatics and Game & Media Technology, 30–50 students. 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)
- Coordinator & Lecturer **Information Security**, Utrecht University, Bachelor in Information Science, 100–120 students. 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 ☆, 2019–2020, 2020–2021 ☆, 2021–2022)
- Coordinator & Lecturer **Serious Gaming Seminar**, Utrecht University, Master's in Business Informatics, 15–30 students. 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 ☆)

- Coordinator & Lecturer **Organizations & ICT**, Utrecht University, Bachelor in Information Science, 100–120 students. This course introduces principles and techniques that help adequately employing information and communication technology within organizations (2013–2014, 2014–2015, 2018–2019)
- Coordinator & Lecturer **Business Informatics Summer School**, 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 & TA **Organizational Information Systems**, 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 **Agent-Oriented Software Engineering**, 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)

Thesis Supervision

I supervised 48+ successful MSc students and some BSc students as first supervisor. These projects led to several publications, including Fabiano Francesconi [c47, c39], Remco Snijders [w16, w12, i1], Michal Korenko [w11], Rick Barneveld [c38], Bill Roungas [c34], Philipp Lombriser [c28], Marcel Robeer [c29], Jan Strien [c33], Daniel Alami [c25], Ivor van der Schalk [c23, j14], Micaela Parente [c20], Merle Delen [c18], Martijn van Vliet [c16], Jasper Berends [c9], Jelle Wouters [c10], Randell Rasiman [c6], Wouter van Oosten [j4].

Involvement in Scientific Events

PC Chair

- RE 2023 31st IEEE International Requirements Engineering Conference, Hannover, Germany, September 4–September 8, 2023.
- REFSQ 2021 27th International Working Conference on Requirements Engineering: Foundation for Software Quality, Essen, April 12–15, 2021.
- RCIS 2020 14th International Conference on Research Challenges in Information Science, Cyprus, September 23–25, 2020.
- SAC:RE 2017 Requirements Engineering Track at the 32nd ACM Symposium on Applied Computing, Marrakech, Morocco, April 3-7, 2017.

Conference Organization

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

Other Conference Roles

- CAiSE 2023 Tutorial Chair of the 35th International Conference on Advanced Information Systems Engineering, Zaragoza, Spain, June 12–June 16, 2023.
- REFSQ 2023 Doctoral Symposium Chair of the 29th International Working Conference on Requirements Engineering: Foundation for Software Quality, Barcelona, Spain, April 17-20, 2023.
- RE 2021 Chair of the RE@Next! Track of the 29th IEEE International Requirements Engineering Conference, Notre Dame, Indiana, United States, September 20–September 24, 2021.
- RE 2020 Artifacts Evaluation Chair of the 28th IEEE International Requirements Engineering Conference, Zurich, Switzerland, August 31–September 4, 2020.
- RE 2019 Proceedings Chair of the 27th IEEE International Requirements Engineering Conference, Jeju Island, South Korea, September 23-27, 2019.
- RE 2018 Communication and Media Chair of the 26th IEEE International Requirements Engineering Conference, Banff, Canada, August 20-24, 2018.

REFSQ 2017 Posters and Tools Chair of the 23rd International Working Conference on Requirements Engineering: Foundation for Software Quality, Essen, Germany, February 27, 2017.

RCIS 2016 Doctoral Consortium Chair of the 10th International Conference on Research Challenges in Information Science, Grenoble, France, June 1–3, 2016.

Workshop Organization

AgileRE'24 1st International Workshop on on Agile Requirements Engineering, co-located with REFSQ'24, Winterthur, Switzerland, April 8, 2024.

NLP4RE'22 5th International Workshop on Natural Language Processing for Requirements Engineering, co-located with REFSQ'22, Aston, Birmingham, United Kingdom, March 21, 2022.

Agil-ISE'22 1st International Workshop on on Agile Methods for Information Systems Engineering, co-located with CAiSE'22, Leuven, Belgium, June 6, 2022.

REthics'20 1st Workshop on Ethics in Requirements Engineering Research and Practice, co-located with RE'20, Zurich, Switzerland, August 31, 2020.

NLP4RE'20 3rd International Workshop on Natural Language Processing for Requirements Engineering, co-located with REFSQ'20, Pisa, Italy, June 22, 2020.

AIRE'19 6th International Workshop on Artificial Intelligence for Requirements Engineering, co-located with IEEE RE, Jeju, South Korea, September 24, 2019.

NLP4RE'19 2nd International Workshop on Natural Language Processing for Requirements Engineering, co-located with REFSQ'19, Essen, Germany, March 18, 2019.

NLP4RE'18 1st International Workshop on Natural Language Processing for Requirements Engineering, co-located with REFSQ'18, Utrecht, Netherlands, March 19, 2018.

AIRE'17 4th International Workshop on Artificial Intelligence for Requirements Engineering, co-located with IEEE RE'17, Lisbon, Portugal, September 5, 2017.

AIRE'16 3rd International Workshop on Artificial Intelligence for Requirements Engineering, co-located with IEEE RE'16, Beijing, China, September 12, 2016.

EMAS 2014 2nd International Workshop on Engineering Multi-Agent Systems, co-located with AAMAS 2014, Paris, France, May 5–6, 2014.

iStar'14 7th International i* Workshop, co-located with CAiSE'14, Thessaloniki, Greece, June 16–17, 2014.

RESC'11 1st International Workshop on Requirements Engineering for Social Computing, co-located with IEEE RE'11, Trento, Italy, August 29, 2011.

Steering Committee

IEEE RE Steering Committee Member of the International Requirements Engineering Conference, 2022-2027.

REFSQ Steering Committee Member of the International Working Conference on Requirements Engineering: Foundation for Software Quality, 2018-2019, 2020-2024. SC vice-chair between 2021 and 2024; SC chair from 2024.

AIRE Steering Committee Member of the International Workshop on Artificial Intelligence for Requirements Engineering, 2017-2021.

Program Committee (selected)

RE International Requirements Engineering Conference: 2018, 2019 ☆, 2020, 2022. New ideas track of RE (RE@Next!): 2016–2017.

CAiSE International Conference on Advanced Information Systems Engineering: 2012–2016, 2019–2023.

ICSE International Conference on Software Engineering: 2021 ☆, 2024 ☆. New ideas track of ICSE (NIER): 2022 ☆.

AAMAS International Joint Conference on Autonomous Agents and Multi-agent Systems: 2015–2016, 2018–2019, 2020 ☆.

- IJCAI International Joint Conference on Artificial Intelligence: 2021.
- REFSQ International Working Conference on Requirements Engineering: Foundation for Software Quality: 2017, 2019–2020, 2022–2024.
- ER International Conference on Information Systems Development (Information Systems Modelling track): 2023.
- CAIN International Conference on AI Engineering – Software Engineering for AI: 2022–2023.
- IJCAI International Joint Conference on Artificial Intelligence: 2021.
- MODELS International Conference on Model Driven Engineering Languages and Systems, Foundations Track: 2015–2016.
- ESEM Emerging Results and Vision Papers track of the International Symposium on Empirical Software Engineering and Measurement: 2018–2020
- RCIS International Conference on Research Challenges in Information Science: 2012–2014, 2016–2017, 2021–2022.
- 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: 2018–2022.

Program Committee (other)

- Conferences & Symposia International Conference on Behavioural and Social Computing (BESC): 2020; Symposium on Conceptual Modeling Education (SCME): 2016; IEEE Symposium on Software Crowdsourcing (ISSC): 2015; Symposium and Bootcamp on the Science of Security (HotSoS): 2014; International Conference on Pervasive Technologies (PERVASIVE): 2021; Conference on Fundamentals of Software Engineering (FSEN): 2015; Conference on Agents and Artificial Intelligence (ICAART): 2013–2014; IEEE International Conference on Mobile Services (MS): 2013; Conference on Knowledge Engineering and Ontology Development (KEOD): 2012–2013; Forum of the International Conference on Advanced Information Systems Engineering (CAiSE Forum): 2013–2014 .
- Workshops Workshop on Multi-disciplinary, Open, and RElevant Requirements Engineering (MO2RE@ICSE): 2024; Workshop on Software and Systems Traceability Workshop (SST@RE): 2023; Workshop on Natural Language-based Software Engineering (NLbSE@ICSE): 2023; Workshop on Natural Language Processing for Business Process Management (NLP4BPM@BPM): 2023; Workshop on Ethics and Morality in Business Informatics (EMoBI@CAiSE): 2021–2022; Workshop on Recruiting Participants for Empirical Software Engineering (RoPES'22@ICSE): 2022; Workshop on Engineering Multi-Agent Systems: 2014–2016, 2018–2019, 2023 (EMAS@AAMAS); Workshop on Modeling in Software Engineering (MISE@ICSE): 2015–2018; Workshop on Artificial Intelligence for Requirements Engineering (AIRE@RE): 2016–2024; Workshop on Requirements Engineering for Artificial Intelligence (RE4AI@REFSQ): 2020, 2022; Workshop on Games and Software Engineering (GAS@ICSE): 2016, 2022, 2023; Workshop on Affective Computing for Requirements Engineering (AffectRE@RE): 2018, 2020, 2021; Workshop on Empirical Requirements Engineering (EmpiRE@RE): 2017–2018, 2023; Workshop on Conceptual Modeling in Requirements and Business Analysis (MReBA@ER): 2014–2019; Workshop on Crowd-Based Requirements Engineering (CrowdRE@RE): 2015, 2017–2021; Workshop on Creativity in Requirements Engineering (CreaRE@REFSQ): 2018–2020, 2024; Workshop on Requirements Engineering for Self-Adaptive and Cyber Physical Systems (RESACS): 2015, 2018; Workshop on Requirements for the Internet of Things (RIOT@RE): 2018; Workshop on Multiagent Foundations of Social Computing (SC-AAMAS): 2014–2015; iStar Teaching Workshop (iStarT@ER): 2015, 2017; International i* Workshop (iStar): 2011–2023; Workshop on Requirements, Intentions and Goals in Conceptual Modeling (RIGiM@ER): 2012–2013; Workshop on Requirements@run.time (RRT@RE): 2012; Workshop on Social Software Engineering (SSE@FSE): 2011–2015.

Tutorials in Conferences

- RE'21 Agile Requirements Engineering: From User Stories to Software Architectures. Tutorial given with Sjaak Brinkkemper at the 28th IEEE International Requirements Engineering Conference, Online, 2021

- RE'18 Agile Requirements Engineering with User Stories. Tutorial given with Sjaak Brinkkemper at the 25th IEEE International Requirements Engineering Conference, Banff, Alberta, Canada, August 20, 2018
- CAiSE'18 Creating quality user stories to generate conceptual models. Tutorial given with Sjaak Brinkkemper and Garm Lucassen at the 30th International Conference on Information Systems Engineering, Tallin, Estonia, June 13, 2018
- ER 2016 iStar 2.0: A Guided Tour. Tutorial given with Xavier Franch and Jennifer Horkoff at the 35th International Conference on Conceptual Modeling, Gifu, Japan, November 14, 2017
- RE'16 Security Requirements Engineering. Tutorial given with Mattia Salnitri, Elda Paja, and Paolo Giorgini at the 24th IEEE International Requirements Engineering Conference, Beijing, China, September 13, 2016
- CAiSE'13 Security Requirements Engineering for Socio-Technical Systems. Tutorial given with Paolo Giorgini 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

Involvement in Journals

Editorial Board

- BISE Journal Associate Editor of the Business & Information Systems Engineering Journal, Information Systems Engineering department, Springer, since 2021
- RE Journal Associate Editor of the Requirements Engineering Journal, Springer, since 2020. Previously, I was on the Editorial Board (2017-2019). Since 2017, I also serve as publicity chair for the journal.

Reviewer

- IEEE Computer, Software, Transactions on Software Engineering
- ACM Transactions on Software Eng. and Methodology (Distinguished Reviewers Board ☆), Transactions on Autonomous and Adaptive Systems (Distinguished Reviewers Board ☆), Transactions on Internet Computing
- Springer Requirements Engineering, Software Quality Journal, Journal of Software Engineering Research and Development, Software and Systems Modeling
- Elsevier Information Systems, Information & Software Technology, Journal of Systems and Software, Information Sciences, Information Processing Letters
- Wiley Software Practice and Experience, Journal of Software Maintenance and Evolution: Research and Practice
- Inderscience International Journal of Agent-Oriented Software Engineering
- IGI Global International Journal of Information System Modeling and Design
- IET IET Software
- Taylor & Francis Behaviour & Information Technology
- World Scientific International Journal of Cooperative Information Systems

Publications

Journal Papers

- [j1] Sallam Abualhaija, Fatma Başak Aydemir, Fabiano Dalpiaz, Davide Dell'Anna, Alessio Ferrari, Xavier Franch, and Davide Fucci. Replication in requirements engineering: the NLP for RE Case. *ACM Transactions on Software Engineering and Methodology*, 2024.
- [j2] Fabiano Dalpiaz and Jan-Philipp Steghöfer. Where requirements and agility meet: No-man's-land or a land of opportunity? *IEEE Software*, 41(3):7–10, 2024.
- [j3] Marcela Ruiz, Jin Yang Hu, and Fabiano Dalpiaz. Why don't we trace? a study on the barriers to software traceability in practice. *Requirements Engineering*, pages 1–19, 2023.
- [j4] Wouter van Oosten, Randell Rasiman, Fabiano Dalpiaz, and Toine Hurkmans. On the effectiveness of automated tracing from model changes to project issues. *Information and Software Technology*, 160:107226, 2023.
- [j5] Davide Dell'Anna, Fatma Başak Aydemir, and Fabiano Dalpiaz. Evaluating classifiers in SE research: The ECSE pipeline and two replication studies. *Empirical Software Engineering*, 2023.
- [j6] Davide Dell'Anna, Nastasha Alechina, Fabiano Dalpiaz, Mehdi Dastani, and Brian Logan. Data-driven revision of conditional norms in multi-agent systems. *Journal of Artificial Intelligence Research*, 75:85–122, 2022.
- [j7] Jelle Wouters, Abel Menkveld, Sjaak Brinkkemper, and Fabiano Dalpiaz. Crowd-based requirements elicitation via pull feedback: Method and case studies. *Requirements Engineering*, 2022.
- [j8] Tjerk Spijkman, Sabine Molenaar, Fabiano Dalpiaz, and Sjaak Brinkkemper. Alignment and granularity of requirements and architecture in agile development: A functional perspective. *Information and Software Technology*, 2021.
- [j9] Fabiano Dalpiaz, Patrizia Gieske, and Arnon Sturm. On deriving conceptual models from user requirements: An empirical study. *Information and Software Technology*, 131, 2021.
- [j10] Fabiano Dalpiaz and Nan Niu. Requirements Engineering in the Days of Artificial Intelligence . *IEEE Software*, 37(4), 2020.
- [j11] Davide Dell'Anna, Mehdi Dastani, and Fabiano Dalpiaz. Runtime revision of sanctions in normative multi-agent systems. *Autonomous Agents and Multi-Agent Systems*, 2020.
- [j12] Fabiano Dalpiaz and Kendra M.L. Cooper. Games for Requirements Engineers: Analysis and Directions. *IEEE Software*, 2020.
- [j13] Davide Dell'Anna, Fabiano Dalpiaz, and Mehdi Dastani. Requirements-driven evolution of sociotechnical systems via probabilistic reasoning and hill climbing. *Automated Software Engineering*, 2019.
- [j14] Fabiano Dalpiaz, Ivor van der Schalk, Sjaak Brinkkemper, Fatma Başak Aydemir, and Garm Lucassen. Detecting Terminological Ambiguity in User Stories: Tool and Experimentation. *Information & Software Technology*, 2019.
- [j15] Fabiano Dalpiaz, Alessio Ferrari, Xavier Franch, and Cristina Palomares. Natural Language Processing for Requirements Engineering: The Best Is Yet to Come. *IEEE Software*, 2018.
- [j16] Estefanía Serral, Paolo Sernani, and Fabiano Dalpiaz. Personalized adaptation in pervasive systems via non-functional requirements. *Journal of Ambient Intelligence and Humanized Computing*, 2017.

- [j17] 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.
- [j18] 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.
- [j19] 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.
- [j20] Mattia Salnitri, Fabiano Dalpiaz, and Paolo Giorgini. Designing Secure Business Processes with SecBPMN. *Software and Systems Modeling*, 16(3):737–757, 2017.
- [j21] 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.
- [j22] 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.
- [j23] 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.
- [j24] 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.
- [j25] Raian Ali, Fabiano Dalpiaz, and Paolo Giorgini. Reasoning with Contextual Requirements: Detecting Inconsistency and Conflicts. *Information and Software Technology*, 55(1):35–57, 2013.
- [j26] Fabiano Dalpiaz and Paolo Giorgini and John Mylopoulos. Adaptive Socio-Technical Systems: a Requirements-driven Approach. *Requirements Engineering*, 18(1):1–24, 2013.
- [j27] 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.
- [j28] Raian Ali, Fabiano Dalpiaz, and Paolo Giorgini. A Goal-based Framework for Contextual Requirements Modeling and Analysis. *Requirements Engineering*, 15(4):439–458, 2010.
- [j29] 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.
- [j30] 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

- [c1] Maxim Bragilovski, Ashley van Can, Fabiano Dalpiaz, and Arnon Sturm. Deriving domain models from user stories: Human vs. machines. In *Proceedings of the 32nd IEEE International Requirements Engineering Conference (RE'24)*. IEEE, 2024.
- [c2] Ashley T. van Can and Fabiano Dalpiaz. Requirements information in backlog items: Content analysis. In *Proceedings of the 30th International Working Conference on Requirements Engineering: Foundation for Software Quality (REFSQ 2024)*, 2024. Invited for special issue ☆.

- [c3] Tjerk Spijkman, Xavier de Bondt, Fabiano Dalpiaz, and Sjaak Brinkkemper. Summarization of elicitation conversations to locate requirements-relevant information. In *Proceedings of the 29th International Working Conference on Requirements Engineering: Foundation for Software Quality (REFSQ 2023)*, 2023.
- [c4] Tjerk Spijkman, Fabiano Dalpiaz, and Sjaak Brinkkemper. Back to the roots: Linking user stories to requirements elicitation conversations. In *Proceedings of the 30th IEEE International Requirements Engineering Conference, RE:Next! Track (RE'22)*, 2022.
- [c5] Maxim Bragilovski, Fabiano Dalpiaz, and Arnon Sturm. Guided derivation of conceptual models from user stories: A controlled experiment. In *Proceedings of the 28th International Working Conference on Requirements Engineering: Foundation for Software Quality (REFSQ 2022)*, volume 12045 of *LNCS*, pages 221–238. Springer, 2022.
- [c6] Randell Rasiman, Fabiano Dalpiaz, and Sergio España. How effective is automated trace link recovery in model-driven development? In *Proceedings of the 28th International Working Conference on Requirements Engineering: Foundation for Software Quality (REFSQ 2022)*, volume 12045 of *LNCS*, pages 221–238. Springer, 2022. Invited for special issue ☆.
- [c7] Omar ElAssy, Rik de Vendt, Fabiano Dalpiaz, and Sjaak Brinkkemper. A semi-automated method for domain-specific ontology creation from medical guidelines. In *Enterprise, Business-Process and Information Systems Modeling*, pages 295–309. Springer, 2022.
- [c8] Sabine Molenaar, Emilie Steenvoorden, Nikita van den Berg, Fabiano Dalpiaz, and Sjaak Brinkkemper. Defining key concepts in information science research: The adoption of the definition of feature. In *Research Challenges in Information Science*, pages 442–457. Springer, 2022.
- [c9] Jasper Berends and Fabiano Dalpiaz. Refining user stories via example mapping: An empirical investigation. In *Proceedings of the 29th IEEE International Requirements Engineering Conference, Industrial Innovation Track (RE'21)*. IEEE, 2021.
- [c10] Jelle Wouters, Rob Janssen, Bas van Hulst, John van Veenhuizen, Fabiano Dalpiaz, and Sjaak Brinkkemper. CrowdRE in a governmental setting: Lessons from two case studies. In *Proceedings of the 29th IEEE International Requirements Engineering Conference, Industrial Innovation Track (RE'21)*. IEEE, 2021. Best paper award. Invited for special issue ☆.
- [c11] Tjerk Spijkman, Fabiano Dalpiaz, and Sjaak Brinkkemper. Requirements elicitation via fit-gap analysis: A view through the grounded theory lens. In *Proceedings of the 33rd International Conference on Advanced Information Systems Engineering (CAiSE'21)*, 2021. Acceptance rate: 19%.
- [c12] Fatma Başak Aydemir and Fabiano Dalpiaz. Supporting collaborative modeling via natural language processing. In *Proceedings of the 39th International Conference on Conceptual Modeling (ER 2020)*, 2020. Acceptance rate: 18.8%.
- [c13] Lientje Maas, Mathan Geurtsen, Florian Nouwt, Stefan Schouten, Robin Van De Water, Sandra Van Dulmen, Fabiano Dalpiaz, Kees van Deemter, and Sjaak Brinkkemper. The Care2Report system: Automated medical reporting as an integrated solution to reduce administrative burden in healthcare. In *Proceedings of the 53rd Hawaii International Conference on System Sciences (HICSS 2020)*, pages 1–10, 2020.
- [c14] Fabiano Dalpiaz and Arnon Sturm. Conceptualizing requirements using user stories and use cases: A controlled experiment. In *Proceedings of the 26th International Working Conference on Requirements Engineering: Foundation for Software Quality (REFSQ 2020)*, volume 12045 of *LNCS*, pages 221–238. Springer, 2020. Acceptance rate: 25%, invited for special issue ☆.
- [c15] Sabine Molenaar, Tjerk Spijkman, Fabiano Dalpiaz, and Sjaak Brinkkemper. Explicit alignment of requirements and architecture in agile development. In *Proceedings of the 26th International*

- Working Conference on Requirements Engineering: Foundation for Software Quality (REFSQ 2020)*, volume 12045 of *LNCS*, pages 169–185. Springer, 2020. Acceptance rate: 25%, invited for special issue ☆.
- [c16] Martijn van Vliet, Eduard C. Groen, Fabiano Dalpiaz, and Sjaak Brinkkemper. Identifying and classifying user requirements in online feedback via crowdsourcing. In *Proceedings of the 26th International Working Conference on Requirements Engineering: Foundation for Software Quality (REFSQ 2020)*, volume 12045 of *LNCS*, pages 143–159. Springer, 2020. Acceptance rate: 25%.
 - [c17] Fabiano Dalpiaz, Davide Dell’Anna, Fatma Başak Aydemir, and Sercan Çevikol. Requirements classification with interpretable machine learning and dependency parsing. In *Proceedings of the 27th IEEE International Requirements Engineering Conference (RE’19)*. IEEE, 2019. Invited for special issue ☆.
 - [c18] Merle Delen, Fabiano Dalpiaz, and Kendra M. Cooper. BakeRE: A serious educational game on the specification and analysis of user stories. In *Proceedings of the 27th International Requirements Engineering Conference, RE:Next! Track (RE’19)*, 2019.
 - [c19] Davide Dell’Anna, Mehdi Dastani, and Fabiano Dalpiaz. Runtime revision of norms and sanctions based on agent preferences. In *Proceedings of the 18th International Conference on Autonomous Agents and Multiagent Systems (AAMAS 2019)*, 2019. Acceptance rate: 24.2%.
 - [c20] Fabiano Dalpiaz and Micaela Parente. RE-SWOT: From user feedback to requirements via competitor analysis. In *Proceedings of the 25th International Working Conference on Requirements Engineering: Foundation for Software Quality (REFSQ’19)*, 2019. Invited for special issue ☆.
 - [c21] Laurens Müter, Tejaswini Deoskar, Max Mathijssen, Sjaak Brinkkemper, and Fabiano Dalpiaz. Refinement of user stories into backlog items: Linguistic structure and action verbs. In *Proceedings of the 25th International Working Conference on Requirements Engineering: Foundation for Software Quality (REFSQ’19)*, 2019.
 - [c22] Fatma Başak Aydemir, Fabiano Dalpiaz, Sjaak Brinkkemper, Paolo Giorgini, and John Mylopoulos. The next release problem revisited: A new avenue for goal models. In *Proceedings of the 26th IEEE International Requirements Engineering Conference (RE’18)*. IEEE, 2018. Invited for special issue ☆.
 - [c23] Fabiano Dalpiaz, Ivor van der Schalk, and Garm Lucassen. Pinpointing ambiguity and incompleteness in requirements engineering via information visualization and NLP. In *Proceedings of the 24th International Working Conference on Requirements Engineering: Foundation for Software Quality (REFSQ’18)*, 2018. Invited for special issue ☆.
 - [c24] Garm Lucassen, Maxim van de Keuken, Fabiano Dalpiaz, Sjaak Brinkkemper, Gijs Willem Sloof, and Johan Schlingmann. Jobs-to-be-done oriented requirements engineering: A method for defining job stories. In *Proceedings of the 24th International Working Conference on Requirements Engineering: Foundation for Software Quality (REFSQ’18)*, 2018.
 - [c25] 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.
 - [c26] 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.
 - [c27] 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.

- [c28] Philipp Lombriser, Fabiano Dalpiaz, Garm Lucassen, and Sjaak Brinkkemper. Gamified requirements engineering: Model and experimentation. In *Proceedings of the 22nd International Working Conference on Requirements Engineering: Foundation for Software Quality (REFSQ'16)*, volume 9619 of LNCS, pages 171–187, 2016.
- [c29] 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. Invited for special issue ☆.
- [c30] 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.
- [c31] 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.
- [c32] 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.
- [c33] 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.
- [c34] Bill Rounagas and Fabiano Dalpiaz. A model-driven framework for educational game design. In *Proceedings of the Games and Learning Alliance Conference (GALA Conf 2015)*, 2015.
- [c35] 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.
- [c36] 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 ☆.
- [c37] 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 ☆.
- [c38] 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.
- [c39] 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.
- [c40] 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.
- [c41] 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.
 - [c42] 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%.
 - [c43] Floor Aarnoutse, Linda Peursum, and Fabiano Dalpiaz. The evolution of advergames 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.
 - [c44] 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 ☆.
 - [c45] 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.
 - [c46] 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 ☆.
 - [c47] 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%.
 - [c48] 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.
 - [c49] 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.
 - [c50] 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%.
 - [c51] 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.
 - [c52] 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.

- [c53] 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%.
- [c54] 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%.
- [c55] 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%.
- [c56] 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%.
- [c57] Amit K. Chopra, Fabiano Dalpiaz, Paolo Giorgini, and John Mylopoulos. Reasoning about agents and protocols via goals and commitments. In *Proceedings of the 9th International Conference on Autonomous Agents and Multiagent Systems (AAMAS 2010)*, pages 457–464. IFAAMAS, 2010. Acceptance rate: 23.7%.
- [c58] 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.
- [c59] 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%.
- [c60] 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.
- [c61] 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.
- [c62] Raian Ali, Fabiano Dalpiaz, and Paolo Giorgini. Location-based variability for mobile information systems. In *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%.
- [c63] Raian Ali, Fabiano Dalpiaz, and Paolo Giorgini. Location-based software modeling and analysis: Tropos-based approach. In *Proceedings of the 27th International Conference on Conceptual Modeling (ER 2008)*, volume 5231 of *LNCS*, pages 169–182. Springer, 2008. Acceptance rate: 25%.

- [c64] 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.
- [c65] 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.

Conference Proceedings & Books

- [b1] Fabiano Dalpiaz and Paola Spoletini, editors. *Requirements Engineering: Foundation for Software Quality - 27th International Working Conference, REFSQ 2021, Essen, Germany, April 12–15, 2021, Proceedings*, volume 12685 of *LNCS*. Springer, 2021.
- [b2] Fabiano Dalpiaz, Jelena Zdravkovic, and Pericles Loucopoulos, editors. *Research Challenges in Information Science - 14th International Conference, RCIS 2020, Limassol, Cyprus, September 23-25, 2020, Proceedings*, volume 385 of *LNBIP*. Springer, 2020.
- [b3] Erik Kamsties, Jennifer Horkoff, and Fabiano Dalpiaz. *Requirements Engineering: Foundation for Software Quality - 24th International Working Conference, REFSQ 2018, Utrecht, Netherlands, March 19-22, 2018, Proceedings*, volume 10753 of *LNCS*. Springer, 2018.
- [b4] Fabiano Dalpiaz, Elda Paja, and Paolo Giorgini. *Security Requirements Engineering: Designing Secure Socio-Technical Systems*. Information Systems Series. MIT Press, 2016.
- [b5] Achim D. Brucker, Fabiano Dalpiaz, Paolo Giorgini, Per Håkon Meland, and Erkuden Rios. *Secure and Trustworthy Service Composition*, volume 8900 of *LNCS*. Springer, 2014.
- [b6] 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 and Book Chapters

- [i1] 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.
- [i2] 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.
- [i3] 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. In Achim D. Brucker, Fabiano Dalpiaz, Paolo Giorgini, Per Håkon Meland, and Erkuden Rios, editors, *Secure and trustworthy service composition: The Aniketos approach*, pages 10–35. 2014.
- [i4] 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.
- [i5] Elda Paja, Fabiano Dalpiaz, and Paolo Giorgini. The socio-technical security requirements modelling language for secure composite services. In Achim D. Brucker, Fabiano Dalpiaz, Paolo Giorgini, Per Håkon Meland, and Erkuden Rios, editors, *Secure and trustworthy service composition: The Aniketos approach*, pages 63–78. Springer International Publishing, Cham, 2014.

- [i6] 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.
 - [i7] 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.
 - [i8] 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.
 - [i9] 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 \(arXiv.org, ...\)](#)
- [e1] Fabiano Dalpiaz, Xavier Franch, and Jennifer Horkoff. iStar 2.0 language guide. arXiv:1605.07767 [cs.SE], 2016.
- [Workshop Papers and Demonstrations](#)
- [w1] Maxim Bragilosvki, Fabiano Dalpiaz, and Arnon Sturm. From User Stories to Domain Models: Recommending Relationships between Entities. In *Proceedings of the Workshop on Natural Language Processing in Requirements Engineering (NLP4RE'23)*, 2023.
 - [w2] Abel Menkveld, Sjaak Brinkkemper, and Fabiano Dalpiaz. User story writing in crowd requirements engineering: The case of a web application for sports tournament planning. In *Proceedings of the 3rd International Workshop on Crowd-Based Requirements Engineering (CrowdRE'19)*, 2019.
 - [w3] Tjerk Spijkman, Sjaak Brinkkemper, Fabiano Dalpiaz, Anne-Fleur Hemmer, and Richard van de Bospoort. Specification of requirements and software architecture for the customisation of enterprise software: A multi-case study based on the RE4SA model. In *Proceedings of the International Model-Driven Requirements Engineering Workshop (MoDRE 2019)*, 2019.
 - [w4] Davide Dell'Anna, Fabiano Dalpiaz, and Mehdi Dastani. Validating goal models via bayesian networks. In *Proceedings of the International Workshop on Artificial Intelligence for Requirements Engineering (AIRE'18)*, 2018.
 - [w5] Fatma Başak Aydemir and Fabiano Dalpiaz. A roadmap for ethics-aware software engineering. In *Proceedings of the International Workshop on Software Fairness (FairWare 2018)*, 2018.
 - [w6] Fatma Başak Aydemir and Fabiano Dalpiaz. Towards aligning multi-concern models via NLP. In *Proceedings of the International Model-Driven Requirements Engineering Workshop (MoDRE-RE 2017)*, 2017.
 - [w7] 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.
 - [w8] 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.
 - [w9] Garm Lucassen, Fabiano Dalpiaz, Jan Martijn van der Werf, and Sjaak Brinkkemper. AQUA: 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.

- [w10] Marsha Chechik, Fabiano Dalpiaz, Csaba Debreceni, 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.
- [w11] 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.
- [w12] 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.
- [w13] Fabiano Dalpiaz. Teaching goal modeling in undergraduate education. In *Proceedings of the First International iStar Teaching Workshop (iStarT'15)*, 2015.
- [w14] 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.
- [w15] 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.
- [w16] 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.
- [w17] 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.
- [w18] 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.
- [w19] 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.
- [w20] 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.
- [w21] 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.
- [w22] 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.
- [w23] 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.

- [w24] 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.
- [w25] 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.
- [w26] 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.
- [w27] 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.
- [w28] 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.
- [w29] 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.
- [w30] 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.
- [w31] 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.
- [w32] 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.
- [w33] 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.
- [w34] 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.
- [w35] 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.

References

The contacts of referees will be provided upon request.

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