

**ANNA PERINI**  
Curriculum Vitae (April 2017)

**CONTACTS:**

Fondazione Bruno Kessler  
Via Sommarive 18, 38123 Povo (Trento), Italy  
Phone.: +39 0461 314 330  
Fax: +39 0461 302 040  
Email: [perini@fbk.eu](mailto:perini@fbk.eu)  
URL: <http://se.fbk.eu/perini>

**Anna Perini** is a researcher at the Software Engineering (SE) research unit at Fondazione Bruno Kessler, Trento, Italy, where she is leading research activities in Requirements Engineering. She is project coordinator of the SUPERSEDE (SUpporting evolution and adaptation of PERsonalized Software by Exploiting contextual Data and End-user feedback) project, an European H2020 project (n. 644018), funded under the theme ICT-09-2014 (Tools and Methods for Software Development).

Her current research interests are in the area of requirements engineering and include conceptual modeling and decision making in requirements engineering; regulatory compliance of system requirements; distributed collaborative requirements engineering; data-driven requirements engineering. She is author of more than 200 scientific publications in Int. Journals and Conferences. H-index 34, GoogleScholar, April 2017.

She received her laurea degree cum laude in Physics from the University of Trento (Italy), in 1981. She specialized in Computer Simulation for Statistical Mechanics of complex systems at SRMP (CEA) in Paris (F) and at the University of Trento with a research grant, in the period 1982 – 1985.

Anna Perini participated as primary investigator and research leader in several funded projects devoted to the application of knowledge representation and reasoning techniques to decision-making in complex tasks such as environmental crisis management (period 1990-2005), and to the definition and application of novel Agent-Oriented Software Engineering and Requirements Engineering methodologies (period 2000-2014). In particular, she gave substantial contribution to the development of the agent-oriented methodology, TROPOS (its publication in JAAMAS 2004, got 1821 citations, ref. Google scholar April '17), and the TROPOS modeling tool TAOM4E (<http://selab.fbk.eu/taom>).

She contributed to several FBK initiatives aiming at promoting women participation to science and technology research, and in particular to the FESTA (Female Empowerment in Science and Technology Academia, EU FP7 funded, n. 287526), coordinating the FBK contribution to workpackage 6.2: PHD student-advisor relationships.

Anna Perini served as program chair for REFSQ 2017 (Int. Working Conference on Requirements Engineering: Foundation for Software Quality, from 27-02-2017 to 2/03/2017, Essen, Germany), and for several Int. Workshops. She was Local Co-Chair of the 19th IEEE Int. Requirements Engineering Conference, RE'11 (Trento) and of the 17th European Conference on Artificial Intelligence, ECAI 2006, Riva del Garda (I).

She regularly reviews papers for top journals in the software engineering area (e.g. JRE, TSE, IST, JSS).

The research she conducts involve national and international collaborations, including the Dept. of Computer Science at UCL (Emmanuel Letier), DISI Dept. at University of Trento (John Mylopoulos, Paolo Giorgini), the Universitat Politècnica de Catalunya (Xavier Franch), the University of Zurich (Norbert Seyff) and UFES - Universidade Federal do Espírito Santo (Renata Guizzardi).

## **Professional career and positions held**

2007 – present, Researcher at FBK-IRST, SE Research Unit (Level R2)  
2015-2016, Scientific coordinator of the joint research program of FBK-ICT and CNR-ISTC (LOA) “Ontology-Based Information Systems (OBIS)  
2002 – 2006, Research Unit leader at SRA Division at ITC-IRST (since 2005, Level R2)  
1988 – 2001, Researcher at ITC-IRST (Level R3)  
1985 –1987, Junior Researcher at ITC-IRST  
1982 – 1985, Research Grant (SRMP-CEA and Univ. Trento, Physics Dep.).

## **Teaching**

2015 – present Requirements Engineering Course (Master - Univ. Trento)  
2013 - present: Requirements Engineering Course at the ICT Doctoral School (Univ. Trento)  
2006-2008 Lessons on Requirements Engineering - part of the Software Engineering course at the U. of Trento (I)  
2007, March 27-30, Agent-Oriented Software Engineering, Master on Computing program at UPC, Barcelona (S)  
2005-2006 Software Engineering, at the University of Trento (I), contract professor  
2004-2005 Software Development Process, at the University of Trento (I), contract professor  
2003/04, 2002/03, 2001/02, 2000/01 Software Engineering Lab, at the U. of Trento (I), contract professor.

## **PHD Student Supervision**

Jacek Dąbrowski [from 03-10-2016 - present], University College London (UCL) PHD School (co-advisor: Angelo Susi (FBK), Emmanuel Letier (UCL), Mark Harman (UCL)  
Itzel Morales-Ramírez [2011-2015] Exploiting Online User Feedback in Requirements Engineering  
Nauman Ahmed Qureshi [2007-2011]. Requirements Engineering for Self-Adaptive Software: Bridging the Gap between Design-Time and Run-Time  
Mirko Morandini [2006-2010]. Goal-Oriented Development of Self-Adaptive Systems  
Cu Duy Nguyen [2005-2008]. Testing Techniques for Software Agents  
Member of the Doctoral School Committee of the ICT Doctoral School (Univ. Trento)

## **Funded Projects**

[2015-2018] SUPERSEDE Supporting evolution and adaptation of PERsonalized Software by Exploiting contextual Data and End-user feedback, funded by EU H2020, grant # 644018. Project Coordinator.  
[2010-2013, extended to 2017] Made in Italy - L'architettura della performance, funded by the Italian Ministero dello Sviluppo. Responsible for the workpackage devoted to the development of a Knowledge Management Platform for the engineering and installation of specialized building components.  
[2008-2009] AMICO (Assistenza Multilivello Integrata e Cura Ovunque - GPI, funded by LP 6/1999). Responsible for the SE research line contribution.  
[2004-2008] STAMPS. Funded by PAT, Fondo Unico per la Ricerca. Responsible for the development of agent-oriented methods and tools supporting a requirement-driven approach to Web Services engineering.  
[2003-2005] KLASE (Knowledge Level Automated Software Engineering). Funded by FIRB MIUR Project. Team member, leading the activity devoted to the development of an Agent-Oriented modeler for visual modeling in Tropos (TAOM tool).

[2004-2005] RISICOM - Ricerca e Innovazione nei Sistemi Informativi COMunali (DeltaDator SpA - Funded by PAT, LP 6/1999). Project manager.

[2001-2005] SMAP: Apple Proliferation / Scopazzi del Melo (Fondo Progetti PAT, art. 9, Legge Provinciale 3/2000, DGP n. 1060 dd. 04/05/01). Project manager.

[2001-2004] EDAMOK: Enabling Distributed and Autonomous Management Of Knowledge - (Fondo Progetti PAT, art. 9, Legge Provinciale 3/2000, DGP n. 1060 dd. 04/05/01). Team member, coordinating the research activity devoted to the extension of the Tropos methodology for the analysis of requirements of a Distributed Knowledge Management systems.

[2000-2003] PICO: A Decision Support System for Integrated Protection in Agriculture. (Funded by MIUR). Project Manager.

[1997-1999] IDA: An Intelligent Decision Advisor for crisis management. (A collaboration with ENEA C.R.E. Casaccia, ERG-ING-TISGI – Rome, funded by MIUR). Responsible for IRST research contribution.

[1995-1997] CARICA: Case Acquisition and Replay In fire Campaigns Ambience (Esprit IV - #20401). Team member.

[1992-1995] CHARADE: Combining Human Assessment and Reasoning Aids for Decision- making in environmental Emergencies (Esprit III - #6095). Team member.

### **Selection of invited talks and lectures**

Invited talk: *Self-adaptive service based applications: Challenges in requirements engineering* at the Sixth International Conference on (RCIS) , Valencia, Spain, 16-18 May 2012.

Invited talk: *Towards Self-Adaptive Software Services. Challenges in Requirements Engineering Research.* Invited talk at REFS Int. Workshop at COMPSAC 2008 Turku (Fin).

Tutorial: the 16th IEEE International Requirements Engineering Conference, on "Strategic Actors. Modeling with i\*", in coll. with E. Yu and J. Castro.

### **Scientific Committee (Int. Conference and Journals)**

Program Chair International working conference on Requirements Engineering: Foundation for Software Quality, REFSQ 2017. Essen, Germany, from 27-02-2017 to 02-03-2017

Program Chair RE@Next!2016 track of 24-st IEEE Int. Requirements Engineering Conference, Beijing, China, from 14-09-2016 to 16-09-2016

Program Chair Int. workshop: IEEE 1st International Workshop on Crowd-Based Requirements Engineering (CrowdRE). Co-located with RE'15, Ottawa, Canada, from 25-08-2015 to 25-08-2015

Tutorial chair: 23-rd IEEE Int. Requirements Engineering Conference RE'15 Ottawa, Canada, from 24-08-2015 to 24-08-2015

Poster session chair: 21-st Int. Working Conference on Requirements Engineering: Foundation for Software Quality, REFSQ 2015. Essen, Germany, from 24-03-2015 to 25-03-2015

Program Chair Int. Workshop: IEEE 7th International Workshop on Requirements Engineering and Law (RELAW). Co-located with RE'14 Karlskrona, Svezia, from 26-08-2014 to 26-08-2014

Program Chair Int. Workshop: IEEE 2nd International Workshop on Usability- and Accessibility-Focused Requirements Engineering, UsARE 2014. Co-located with RE'14 Karlskrona, Svezia, from 26-08-2014 to 26-08-2014

Program Chair Int. workshop: 1-st International Workshop on Usability- and Accessibility-Focused Requirements Engineering, UsARE 2012. Co-located with ICSE

2012, Zurigo, Swiss from 04-06-2012 to 04-06-2012

Program Chair Int. Workshop: International Workshop on Goal-based Business Process Engineering. Co-located with 14th IEEE EDOC 2010, Vitoria, ES, Brasil, from 25-10-2010 to 25-10-2010

Program Chair Int. Workshop: 3rd International i\* Workshop (istar'08)

Recife, Pernambuco, Brasile, from 11-02-2008 to 12-02-2008

Program Chair Int. Conference: 3rd European Starting AI Researcher Symposium (STAIR 2006), Riva del Garda, Italy, from 28-08-2006 to 29-08-2006

**Multiagent and Grid Systems.** An International Journal (IOS Press), Editorial Board member.

## Selected Publications

Morandini M, Penserini L, Perini A, Marchetto A (2017). Engineering requirements for adaptive systems. REQUIREMENTS ENGINEERING, vol. 22, p. 77-103, ISSN: 0947-3602, doi: 10.1007/s00766-015-0236-0

Itzel Morales-Ramirez, Anna Perini, Renata S. S. Guizzardi (2015). An ontology of online user feedback in software engineering. APPLIED ONTOLOGY, vol. 10, p. 297-330, ISSN: 1875-8533, doi:10.3233/AO-150150

Anna Perini, Angelo Susi, Paolo Avesani (2013). A Machine Learning Approach to Software Requirements Prioritization. IEEE TRANSACTIONS ON SOFTWARE ENGINEERING, vol. 39, p. 445-461, ISSN: 0098-5589, doi: 10.1109/TSE.2012.52

Silvia Ingolfo, Alberto Siena, John Mylopoulos, Angelo Susi, Anna Perini (2013). Arguing regulatory compliance of software requirements. DATA & KNOWLEDGE ENGINEERING, vol. 87, p. 279-296, ISSN: 0169-023X, doi:10.1016/j.datak.2012.12.004

I. Hadar, I. Reinhartz-Berger, T. Kuflik, A. Perini, F. Ricca, and A. Susi, (2013). Comparing the comprehensibility of requirements models expressed in Use Case and Tropos: Results from a family of experiments. INFORMATION AND SOFTWARE TECHNOLOGY, vol. 55, p. 1823-1843, ISSN: 0950-5849, doi: 10.1016/j.infsof.2013.05.003

Nguyen Cu D, Miles S, Perini A, Tonella P, Harman M, Luck M (2012). Evolutionary testing of autonomous software agents.. AUTONOMOUS AGENTS AND MULTI-AGENT SYSTEMS, vol. 25, p. 260-283, ISSN: 1387-2532, doi: 10.1007/s10458-011-9175-4

Cu D. Nguyen, Anna Perini, Paolo Tonella (2010). Goal-oriented testing for MASs. INTERNATIONAL JOURNAL OF AGENT-ORIENTED SOFTWARE ENGINEERING, vol. 4(1), pp 79-109

Carlos Cares, Xavier Franch, Anna Perini, Angelo Susi (2011). Towards interoperability of i\* models using iStarML. COMPUTER STANDARDS & INTERFACES, vol. 33, p. 69-79, ISSN: 0920-5489, doi:10.1016/j.csi.2010.03.005

Anna Perini, Filippo Ricca, Angelo Susi (2009). Tool-Supported Requirements Prioritization. Comparing the AHP and CBRank Methods. INFORMATION AND SOFTWARE TECHNOLOGY, p. 1021-1032, ISSN: 0950-5849 9 2009

Scott DeLoach, Lin Padgham, Anna Perini, Angelo Susi, John Thangarajah (2009). Using three AOSE toolkits to develop a sample design. INTERNATIONAL JOURNAL OF AGENT-ORIENTED SOFTWARE ENGINEERING, vol. 3, p. 416-476, ISSN: 1746-1375

Loris Penserini, Anna Perini, Angelo Susi, John Mylopoulos (2007). High variability design for software agents: Extending Tropos. ACM TRANSACTIONS ON AUTONOMOUS AND ADAPTIVE SYSTEMS, vol. 2, ISSN: 1556-4665

Anna Perini, Angelo Susi (2005). AI in support of Plant Disease Management. AI COMMUNICATIONS, vol. 18, p. 281-291, ISSN: 0921-7126

A. Susi, A. Perini, J. Mylopoulos, P. Giorgini (2005). The Tropos Metamodel and its Use. INFORMATICA, vol. 29, p. 401-408, ISSN: 0350-5596

Perini A, Susi A (2005). Agent-oriented visual modeling and model validation for engineering

distributed systems. COMPUTER SYSTEMS SCIENCE AND ENGINEERING, vol. 20, p. 319-329, ISSN: 0267-6192

P. Bresciani, P. Giorgini, F. Giunchiglia, J. Mylopoulos, A. Perini (2004). Tropos: An Agent-Oriented Software Development Methodology. AUTONOMOUS AGENTS AND MULTI-AGENT SYSTEMS, vol. 8, p. 203-236, ISSN: 1387-2532