

Guglielmo De Angelis – Curriculum Vitae

(Page 1 of 21)

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PERSONAL INFORMATION

Name Guglielmo De Angelis

Nationality Italian.

CURRENT POSITION

Since Dec 2012 I have a permanent research position at CNR.

SHORT RESUME

I am PhD in Software Engineering; my research activity focuses on the design, the analysis, and the validation of complex distributed software systems, often abiding by the service-oriented paradigm. In my career I am studying and developing frameworks in order to emphasize software design reuse and allow for early evaluation of system quality. For example, among the others I am working in different domains in order to: generate environments for distributed QoS testing, generate distributed and adaptable monitoring infrastructures for QoS, analytically predict performance parameters, empirically test performance parameters, test on-line QoS parameters such as trustworthiness.

As detailed in the following, all these activities have been applied in the context of industrial projects (e.g. Ericsson Lab Italy), research projects (e.g. Italian MIUR funded, or E.U. funded), and international cooperations (e.g. University of California at Berkeley). Also, I am contributing in designing, developing, and maintaining Software Tools implementing the ideas proposed in such projects.

Since 2007 I am also involved in teaching activities holding courses about software engineering approaches (i.e. modelling, analysis, and development) of complex and distributed software systems.

KEY RESEARCH AREAS

Software Engineering; Service Oriented Architecture; Software Testing; Web Engineering; Distributed Architectures; Model Driven Engineering

EDUCATION

16.Oct.2007 PhD in Innovative Technologies of ICT and Robotics – Computer Science at the Scuola Superiore Sant’Anna of Pisa.

Nov.2005-Apr.2006 Visiting period at University of California at Berkeley.

Supervisor: Prof. Alberto Sangiovanni Vincentelli.

Platform Based Design (PDB) and the Model Driven Engineering (MDE) approaches. The experience produced a methodology to capture specifications and provide an early performance estimation of possible implementations of software application on embedded systems.

4-8.Jul.2005 PhD and Researchers International School – Braga (Portugal)

Summer School on “Generative and Transformational Techniques in Software Engineering”.

and the transformation of programs, data, models, meta-models, and documentation. The main topics covered concern Generative programming, Graph transformation, Model-driven approaches and Domain-specific languages.

6-10.Sep.2004 PhD and Researches International School – Brest (France)

2nd Summer School on “MDE for Embedded System”.

information needed to understand and apply MDE approaches to the development of embedded systems. The summer school also included lectures from experts in academia and industry on topics related to MDE practices and methods, and to emerging Model Driven Architecture (MDA) technologies.

Apr.2004 PhD Course at Polo Valdera, Scuola Superiore Sant’Anna – Pisa (Italy)

Lessons on “Real Time Systems Programming” held by Prof. A.Burns – Department of Computer Science, University of York, UK.

Jan.2004 Scuola Superiore Sant’Anna – Pisa (Italy)

Beginning of PhD course in Industrial and Information Engineering (Curricula in Computer Science Technologies).

Supervisors: Ing. A.Bertolino, Ing. G.Lipari.

The PhD grant is sponsored by Ericsson Lab Italy in the framework of the PISATel initiative

(<http://www1.isti.cnr.it/ERI/>)

15.Apr.2003 Università degli Studi di L’Aquila – L’Aquila (Italy)

Graduate (Italian “Laurea”) in Computer Science with a first class honors degree.

Thesis’s title: A Language for Reconfiguring Component-Based Applications” (in Italian).

Supervisors: Prof. P.Inverardi, Dott. M.Castaldi.

WORKING EXPERIENCE

Jan.2020 Permanent position as Researcher at IASI-CNR.

Jan.2018-Dec.2019 Permanent position as Technologist at IASI-CNR.

Jan.2014-Jan.2018 Temporary assignment as Technologist at IASI-CNR.

Dec.2012 Permanent position as Technologist at CNR (Assigned to ISTI-CNR).

Jun.2012 Owner of a 1-year position as Researcher at ISTI-CNR (Bando Art.23 02/2012, ISTI-CNR 17/05/2012).

Jun.2011 1-year extension to the position as Researcher at ISTI-CNR (Bando Art.23 08/2008, ISTI-CNR 04/04/2008).

Dec.2010 6-months extension to the position as Researcher at ISTI-CNR (Bando Art.23 08/2008, ISTI-CNR 04/04/2008).

Jun.2010 6-months extension to the position as Researcher at ISTI-CNR (Bando Art.23 08/2008, ISTI-CNR 04/04/2008).

Jun.2009 1-year extension to the position as Researcher at ISTI-CNR (Bando Art.23 08/2008, ISTI-CNR 04/04/2008).

Jun.2008 Owner of a 1-year position as Researcher at ISTI-CNR (Bando Art.23 08/2008, ISTI-CNR 04/04/2008).

Feb.2008 Owner of a 6-months research grant (Assegno di Ricerca) at ISTI-CNR (Bando A.R. 30/2007, ISTI-CNR 30/12/2007).

Jul.2007 Owner of a 6-months research grant (Assegno di Ricerca) at ISTI-CNR (Bando A.R. 18/2007, ISTI-CNR 17/05/2007).

Feb.2007 Owner of a 6-months research grant (Assegno di Ricerca) at ISTI-CNR (Bando A.R. 32/2006, ISTI-CNR 19/12/2006).

Jun.2004-Jul.2005 Internship at Ericsson Lab Italy in Rome, to directly apply the ideas coming from the PhD on their industrial platforms.

Since Jan.2004 I am a member of the Software Engineering Laboratory of ISTI-CNR.

Jan.2004-Oct.2007 PhD student of the Scuola Superiore Sant’Anna of Pisa, working in the PISATel Group.

Oct.2003-Jan.2004 Reply s.p.a. – Rome (Italy)
Analyst and Java developer.

2002 Università degli Studi di L’Aquila – L’Aquila (Italy)
Part-time contract for an amount of 150 hours, as network administrator assistant at Computer Science Laboratories (Windows, Linux, Unix).

NATIONAL AND INTERNATIONAL PROJECTS

Since Oct.2023 Participant of the Italian MUR PRIN 2022 Project: Domain (Grant Agreement 2022TSYYKJ) funded by NextGenEu

Apr.2021-Nov.2023 Project Coordinaton, and Work Package 7 Leader for the Lazio Region Project: OPENNESS (Cod. POR A0375E0069, Cod. GecoWeb A0375-2020-36616) founded under the schema “Gruppi di Ricerca 2020” – POR FESR LAZIO 2014-2020.

Aug.2019-Aug.2023 Research Unit Leader for the Italian PRIN 2017 Project SISMA (ID. 201752ENYB).

Feb.2020-Dec.2020 Participant of the project INDAM-GNCS 2020: “Estensioni del Property-based Testing di e con linguaggi di programmazione dichiarativa” from the Italian Research Group: INdAM-GNCS.

Jan.2018-Dec.2020 Participant, as a member of the Software Engineering Dependable Computing Laboratory of the ISTI-CNR, in the European Project ElasTest (EU H2020 n.731535).

Jun.2017-Jan.2020 Participant, as a member of the Software Engineering Dependable Computing Laboratory of the ISTI-CNR, in the Italian PRIN 2015 Project GAUSS (ID. 2015KWREMX).

Since 2015 Involved in the Italian Research Group: INdAM-GNCS.

Feb.2014-Nov.2017 Project Technical Leader of the European project Leand PAd (EU FP7 STREP n.619583), as a member of the Software Engineering Dependable Computing Laboratory of the ISTI-CNR.

Oct.2010-Nov.2013 Participant, as a member of the Software Engineering Dependable Computing Laboratory of ISTI-CNR, in the European project CHOReOS (EU FP7 IP n.257178).

Oct.2009-Jun.2011 Participant, as a member of the Software Engineering Laboratory of ISTI-CNR, in IPERMOB, an italian project from Regione Toscana.

Jan.2008-Dec.2011 Participant, as a member of the Software Engineering Laboratory of ISTI-CNR, in the European project TAS³ (EU FP7 IP n.216287).

Sep.2006-Jul.2010 Participant, as a member of the Software Engineering Laboratory of ISTI-CNR, in the Italian project ArtDeco (FIRB).

Apr.2006-Oct.2008 Participant, as a member of the Software Engineering Laboratory of ISTI-CNR, in the European project PLASTIC (EU FP6 Strep n.26955).

RESPONSIBILITIES AND OTHER ACTIVITIES

Key Roles in Research Projects

OPENNESS Project Coordination and Work Package 7 Leader for the Lazio Region Project: OPENNESS (Cod. POR A0375E0069, Cod. GecoWeb A0375-2020-36616) founded under the schema “Gruppi di Ricerca 2020” – POR FESR LAZIO 2014-2020.

SISMA Research Unit Leader for the Italian PRIN 2017 Project SISMA (ID. 201752ENYB)

Software Quality and Reliable AI Co-Chair of the CNR Working Group: Software Quality and Reliable AI

Learn PAd Technical Leader of the Learn PAd project (EU FP7 STREP n.619583). (Feb.2014–Oct.2016)

Organizer

QUATIC 2025 – V&V Track Co-Program Chair of the V&V Track for the 18th International Conference on the Quality of Information and Communications Technology

SI-JSEP 2024 Co-Organizer of the Special Issue “Software Quality for Modern Systems” on the Journal of Software: Evolution and Process (Wiley)

SI-JSEP 2024 Co-Organizer of the Special Issue “Distributed Complex Systems: Governance, Engineering, and Maintenance” on the Journal of Software: Evolution and Process (Wiley)

SI-JSS 2023 Co-Organizer of the Special Issue “Test automation: Trends, benefits, and costs” on the Journal of Systems and Software (Elsevier)

AST 2022 Co-Program Chair of the 3rd International Conference on Automation of Software Test co-located at ICSE 2022

GAUSS 2021 Co-Chair of the 3rd International Workshop on Governing Adaptive and Unplanned Systems of Systems at ISSRE 2021

GAUSS 2020 Co-Chair of the 2nd International Workshop on Governing Adaptive and Unplanned Systems of Systems at ISSRE 2020

GAUSS 2019 Co-Chair of the International Workshop on Governing Adaptive and Unplanned Systems of Systems at ISSRE 2019

QA3C 2018 Co-Chair of the International Workshop on Quality Assurance in the Context of Cloud Computing at UCC 2018

VPT 2017 Member of the Organizing Committee of the 5th International Workshop on Verification and Program Transformation at ETAPS 2017

SCORE-IT 2015 Co-Chair of the Student Contest on Software Engineering-Italy at ICSE 2015

CompArch 2011 Publicity Chair

SOFTWARE PROJECTS

Hyperion: Designer, Integrator, Developer. See more information at <https://github.com/IASI-SAKS/hyperion>

Groucho: Designer, Integrator, Developer. See more information at <https://github.com/IASI-SAKS/groucho>

Learn PAd: Designer, Integrator, Developer. See more information at <https://github.com/LearnPAD/learnpad>

GLIMPSE: Designer. See more information at <http://labse.isti.cnr.it/tools/glimpse>

MOTHIA: Designer. See more information at <http://labse.isti.cnr.it/tools/mothia>

Puppet: Designer and Developer. See more information at <http://labse.isti.cnr.it/tools/puppet>

(role)CAST: Designer and Developer. See more information at <http://labse.isti.cnr.it/tools/rolecast>

ZXID: Contributor as Developer. See more information at <http://zxid.org>

TEACHING

IS2 2025-2026 Software Engineering 2 – Software Testing at Università Tor Vergata - Rome, Italy (3 ECTS)

ISPW 2025-2026 Software Engineering and Web Design at Università Tor Vergata - Rome, Italy (6 ECTS)

IS2 2024-2025 Software Engineering 2 – Software Testing at Università Tor Vergata - Rome, Italy (3 ECTS)

ISPW 2024-2025 Software Engineering and Web Design at Università Tor Vergata - Rome, Italy (6 ECTS)

IS2 2023-2024 Software Engineering 2 – Software Testing at Università Tor Vergata - Rome, Italy (3 ECTS)

ISPW 2023-2024 Software Engineering and Web Design at Università Tor Vergata - Rome, Italy (6 ECTS)

IS2 2022-2023 Software Engineering 2 – Software Testing at Università Tor Vergata - Rome, Italy (3 ECTS)

ISPW 2022-2023 Software Engineering and Web Design at Università Tor Vergata - Rome, Italy (6 ECTS)

IS2 2021-2022 Software Engineering 2 – Software Testing at Università Tor Vergata - Rome, Italy (3 ECTS)

ISPW 2021-2022 Software Engineering and Web Design at Università Tor Vergata - Rome, Italy (6 ECTS)

IS2 2020-2021 Software Engineering 2 – Software Testing at Università Tor Vergata - Rome, Italy (3 ECTS)

ISPW 2020-2021 Software Engineering and Web Design at Università Tor Vergata - Rome, Italy (6 ECTS)

IS2 2019-2020 Software Engineering 2 – Software Testing at Università Tor Vergata - Rome, Italy (3 ECTS)

ISPW 2019-2020 Software Engineering and Web Design at Università Tor Vergata - Rome, Italy (6 ECTS)

ISPW 2018-2019 Software Engineering and Web Design at Università Tor Vergata - Rome, Italy (6 ECTS)

JAVA 2018 Object Oriented Programming in Java at IASI-CNR - Rome, Italy (28 Hours)

ISPW 2017-2018 Software Engineering and Web Design at Università Tor Vergata - Rome, Italy (6 ECTS)

ISPW 2016-2017 Software Engineering and Web Design at Università Tor Vergata - Rome, Italy (6 ECTS)

ISPW 2015-2016 Software Engineering and Web Design at Università Tor Vergata - Rome, Italy (6 ECTS)

ISPW 2014-2015 Software Engineering and Web Design at Università Tor Vergata - Rome, Italy (6 ECTS)

MDE 2014-2015 Model Driven Engineering : Basic Concepts at PhD Course at GSSI - L'Aquila, Italy (8 Hours)

ISPW 2013-2014 Software Engineering and Web Design at Università Tor Vergata - Rome, Italy (6 ECTS)

MDE 2013-2014 Model Driven Engineering : Basic Concepts at PhD Course at GSSI - L'Aquila, Italy (4 Hours)

LabSE 2012-2013 Laboratory in Software Engineering at Università degli Studi di L'Aquila - L'Aquila, Italy (3 ECTS)

LabSE 2011-2012 Laboratory in Software Engineering at Università degli Studi di L'Aquila - L'Aquila, Italy (3 ECTS)

LabSE 2010-2011 Laboratory in Software Engineering at Università degli Studi di L'Aquila - L'Aquila, Italy (3 ECTS)

LabSE 2009-2010 Laboratory in Software Engineering at Università degli Studi di L'Aquila - L'Aquila, Italy (3 ECTS)

UML 2009 UML : The Unified Modeling Language at ISTI-CNR - Pisa, Italy (16 Hours)

LabSE 2008-2009 Laboratory in Software Engineering at Università degli Studi di L'Aquila - L'Aquila, Italy (3 ECTS)

TUTORING

Eduardo De Los Santos. “Studio, sviluppo e simulazione di tecniche di machine learning per la modellazione e la predizione del comportamento della folla in scenari specifici.” (2022-2023). Assegno di Ricerca Professionalizzante, IASI-CNR (IASI-004-2022-RM).

Morena Barboni. “Strategie ed approcci a supporto della previsione di guasti in sistemi software a microservizi attraverso tecniche di invivo testing.” (2021). Assegno di Ricerca Professionalizzante, IASI-CNR (IASI-008-2020-RM).

Alessandro Pellegrini. “Strategie, approcci e tecnologie per il test di sistemi software a microservizi.” (2020-2022). Assegno di Ricerca PostDoc, IASI-CNR (IASI-004-2019-RM).

Arifur Rahman. *Monolithic Application Transformation into Microservice Architecture using Docker, Kubernetes Technology*. Master's thesis, Università degli Studi di Camerino (A.Y.:2019-2020).

- Venkatapathy Subramanian. *Modelling, Design and Evaluation of a Process-Driven Framework for Workplace e-Learning*. Ph.D. thesis, Gran Sasso Science Institute – Computer Science, L'Aquila, Italy (2018).
- Raffaello Ciuca. *Glood: un Monitor Cloud per Correlare Eventi Complessi nel Web*. Bachelor's thesis, Università degli Studi di L'Aquila (A.Y.:2010-2011).
- Michele Amico. *Sicurezza in Comunicazioni tra Web Services*. Bachelor's thesis, Università di Pisa (A.Y.:2009-2010).
- Dario Cavallini. *Manipolazione automatica di modelli con tecnologie open-source*. Bachelor's thesis, Università di Pisa (A.Y.:2009-2010).
- Alessandro Baroni. *Sviluppo di una Applicazione WEB con Tecnologie Open Source*. Bachelor's thesis, Università di Pisa (A.Y.:2009-2010).
- Matteo Andolfi. *Sviluppo di uno Strumento in Ambiente Eclipse per la Generazione Automatica di Codice*. Bachelor's thesis, Università di Pisa (A.Y.:2008-2009).
- Klevis Vishkulli. *Sviluppo di un generatore automatico di codice C da Statechart*. Bachelor's thesis, Università di Pisa (A.Y.:2008-2009).
- Giovanni Possemato. *Valutazione Empirica del Quality of Service per i WebService*. Bachelor's thesis, Università di Pisa (A.Y.:2008-2009).
- Francesco Cogoni. *Monitoraggio Adattivo del livello di qualità in Architetture Orientate ai Servizi*. Bachelor's thesis, Università di Pisa (A.Y.:2006-2007).
- Domenico Barbieri. *Network Processor e Reti di Nuova Generazione: Metodologie di Progettazione ed Implementazione di un Caso di Studio*. Bachelor's thesis, Università degli Studi di Roma "Tor Vergata" (A.Y.:2004-2005).

PROGRAM COMMITTEE MEMBER

- AST 2026** 7th International Conference on Automation of Software Test
- SOSE 2026** 20th International Symposium on Service-Oriented System Engineering
- QRS 2026** 26th IEEE International Conference on Software Quality, Reliability and Security.
- AST 2025** 6th International Conference on Automation of Software Test
- ICWS 2025** IEEE International Conference On Web Services, Helsinki, Finland, July 7-12, 2025
- Modelsward 2025** 12th International Conference on Model-Driven Engineering and Software Development
- QRS 2025** 25th IEEE International Conference on Software Quality, Reliability and Security.
- SAC-SA-TTA 2025** 40th Symposium On Applied Computing - track on Software Architecture: Theory, Technology, and Applications
- SESoS 2025** 13th ACM/IEEE International Workshop on Software Engineering for Systems-of-Systems and Software Ecosystems
- SOSE 2025** 19th International Symposium on Service-Oriented System Engineering
- AST 2024** 5th International Conference on Automation of Software Test
- ENASE 2024** 17th International Conference on Evaluation of Novel Software Approaches to Software Engineering
- ICWS 2024** IEEE International Conference On Web Services, Shenzhen, China, July 7-13, 2024.

- QRS 2024** 24th IEEE International Conference on Software Quality, Reliability and Security.
- SAC-SA-TTA 2024** 39th Symposium On Applied Computing - track on Software Architecture: Theory, Technology, and Applications
- SESoS 2024** 12th ACM/IEEE International Workshop on Software Engineering for Systems-of-Systems and Software Ecosystems
- SOSE 2024** 18th International Symposium on Service-Oriented System Engineering
- WebIST 2024** 20th International Conference on Web Information Systems and Technologies
- ENASE 2023** 16th International Conference on Evaluation of Novel Software Approaches to Software Engineering
- MODELSWARD 2023** 11th International Conference on Model-Driven Engineering and Software Development
- QRS 2023** 23th IEEE International Conference on Software Quality, Reliability and Security.
- SAC-SA-TTA 2023** 38th Symposium On Applied Computing - track on Software Architecture: Theory, Technology, and Applications
- SOSE 2023** 17th International Symposium on Service-Oriented System Engineering
- WebIST 2023** 19th International Conference on Web Information Systems and Technologies
- WebIST 2022** 18th International Conference on Web Information Systems and Technologies, Virtual, September 26-28, 2021.
- SOSE 2022** 16th International Symposium on Service-Oriented System Engineering, Virtual, August 23-26, 2021.
- ENASE 2022** 15th International Conference on Evaluation of Novel Software Approaches to Software Engineering, Virtual, April 26-27, 2021.
- SAC-SA-TTA 2022** 37th Symposium On Applied Computing - track on Software Architecture: Theory, Technology, and Applications, Virtual, March 22-26, 2021.
- MODELSWARD 2022** 10th International Conference on Model-Driven Engineering and Software Development, Valletta, Virtual, February 8-10, 2021.
- QRS 2022** 22th IEEE International Conference on Software Quality, Reliability and Security.
- QRS 2021** 21th IEEE International Conference on Software Quality, Reliability and Security.
- WebIST 2021** 17th International Conference on Web Information Systems and Technologies, Virtual, September 26-28, 2021.
- SOSE 2021** 15th International Symposium on Service-Oriented System Engineering, Virtual, August 23-26, 2021.
- ENASE 2021** 16th International Conference on Evaluation of Novel Software Approaches to Software Engineering, Virtual, April 26-27, 2021.
- SAC-SA-TTA 2021** 36th Symposium On Applied Computing - track on Software Architecture: Theory, Technology, and Applications, Virtual, March 22-26, 2021.
- MODELSWARD 2021** 9th International Conference on Model-Driven Engineering and Software Development, Valletta, Virtual, February 8-10, 2021.
- WebIST 2020** 16th International Conference on Web Information Systems and Technologies, Virtual, November 3-5, 2020.

- QRS 2020** 20th IEEE International Conference on Software Quality, Reliability and Security, Macau, China, December 11-14, 2020.
- AI-Test 2020** 2nd International Conference On Artificial Intelligence Testing, Oxford, UK, August 3-6, 2020.
- GISE 2020** International workshop on Governance in Software Engineering, July 3, 2020.
- ENASE 2020** 15th International Conference on Evaluation of Novel Software Approaches to Software Engineering, May 5-6, 2020.
- SOSE 2020** 14th International Symposium on Service-Oriented System Engineering, Oxford, UK, April 13-16, 2020.
- SAC-SA-TTA 2020** 35th Symposium On Applied Computing - track on Software Architecture: Theory, Technology, and Applications, Brno, Czech Republic, March 30-April 3, 2020.
- MODELSWARD 2020** 8th International Conference on Model-Driven Engineering and Software Development, Valletta, Malta, February 25-27, 2020.
- WebIST 2019** 15th International Conference on Web Information Systems and Technologies, Vienna, Austria, September 18-20, 2019.
- ScalCom 2019** 19th IEEE International Conference on Scalable Computing and Communications, Leicester, UK, August 19-23, 2019.
- SAC-SA-TTA 2019** 34th Symposium On Applied Computing - track on Software Architecture: Theory, Technology, and Applications, Limassol, Cyprus, April 8-12, 2019.
- SOSE 2019** 13rd International Symposium on Service-Oriented System Engineering, San Francisco, California, USA, April 4-9, 2019.
- AI-Test 2019** 1st International Conference On Artificial Intelligence Testing, San Francisco, California, USA, April 4-9, 2019.
- ENASE 2019** 14th International Conference on Evaluation of Novel Software Approaches to Software Engineering, Heraklion, Crete, Greece, May 4-5, 2019.
- MODELSWARD 2019** 7th International Conference on Model-Driven Engineering and Software Development, Prague, Czech Republic February 20-21, 2019.
- ENASE 2018** 13th International Conference on Evaluation of Novel Software Approaches to Software Engineering, Funchal, Madeira, Portugal, March 23-24, 2018.
- SOSE 2018** 12th International Symposium on Service-Oriented System Engineering, Bamberg, Germany, March 26-29, 2018.
- ModComp 2018** 5th International Workshop on Model-Driven Engineering for Component-Based Software Systems, Copenhagen, Denmark, October 14, 2018.
- SAC-SA-TTA 2018** 33rd Symposium On Applied Computing - track on Software Architecture: Theory, Technology, and Applications, Pau, France, April 9-13, 2018.
- SmartCity 2018** 16th International Conference on Smart City, Exter, UK, June 28-30, 2018.
- MODELSWARD 2018** 6th International Conference on Model-Driven Engineering and Software Development, Funchal, Madeira, Portugal, January 22-24, 2018.
- WebIST 2018** 14th International Conference on Web Information Systems and Technologies, Seville, Spain, September 18-20, 2018.

- ModComp 2017** 4th International Workshop on Model-Driven Engineering for Component-Based Software Systems, Austin, Texas, USA, September 17, 2017.
- CybConf 2017** 3rd International Conference on Cybernetics, Exter, UK, June 21-23, 2017.
- ENASE 2017** 12th International Conference on Evaluation of Novel Software Approaches to Software Engineering, Porto, Portugal, April 28-29, 2017.
- SOSE 2017** 10th International Symposium on Service-Oriented System Engineering, San Francisco, California, USA, April 6-9, 2017.
- €μ-SEAA 2017** 43rd EUROMICRO Conference on Software Engineering and Advanced Applications - Special Session on “Model-based development, Components and Services”, and on “Embedded Software Engineering”, Vienna, Austria, August 30-September 1, 2017.
- ICSE-PostersTrack 2017** 39th International Conference on Software Engineering - Posters Track, Buenos Aires, Argentina, May 20-28, 2017.
- WebIST 2017** 13th International Conference on Web Information Systems and Technologies, Porto, Portugal, April 25-27, 2017.
- MODELSWARD 2017** 5th International Conference on Model-Driven Engineering and Software Development, Porto, Portugal, February 19-21, 2017.
- ModComp 2016** 3rd International Workshop on Model-Driven Engineering for Component-Based Software Systems, Saint-Malo, France, October 2, 2016.
- AFIN 2016** 8th International Conference on Advances in Future Internet, Nice, France, July 24-28, 2016.
- €μ-SEAA 2016** 42nd EUROMICRO Conference on Software Engineering and Advanced Applications - Special Session on “Model-based development, Components and Services”, and on “Embedded Software Engineering”, Limassol, Cyprus, August 31-September 2, 2016.
- SOSE 2016** 9th International Symposium on Service-Oriented System Engineering, Oxford, UK, March 29-April 2, 2016.
- ENASE 2016** 11th International Conference on Evaluation of Novel Software Approaches to Software Engineering, Rome, Italy, April 27-28, 2016.
- WebIST 2016** 12th International Conference on Web Information Systems and Technologies, Rome, Italy, April 23-25, 2016.
- MODELSWARD 2016** 4th International Conference on Model-Driven Engineering and Software Development, Rome, Italy, February 19-21, 2016.
- SCART 2015** 1st International Workshop on the “ART” of Software Composition, York, UK, September 8, 2015.
- AFIN 2015** 7th International Conference on Advances in Future Internet, Venice, Italy, August 23-28, 2015.
- €μ-SEAA 2015** 41st EUROMICRO Conference on Software Engineering and Advanced Applications - Special Session on “Model-based development, Components and Services”, and on “Embedded Software Engineering”, Funchal, Madeira, Portugal, August 26-28, 2015.
- SOSE 2015** 9th International Symposium on Service-Oriented System Engineering, San Francisco Bay, California, USA, March 30 - April 3, 2015.
- MCTaaS 2015** 1st International Workshop on Mobile Cloud TaaS, San Francisco Bay, California, USA, March 30, 2015.

- WebIST 2015** 11th International Conference on Web Information Systems and Technologies, Lisbon, Portugal, May 20-22, 2015.
- MODELSWARD 2015** 3rd International Conference on Model-Driven Engineering and Software Development, ESEO, Angelis, Loire Valley, France, February 9-11, 2015.
- ENASE 2015** 10th International Conference on Evaluation of Novel Software Approaches to Software Engineering, Barcelona, Spain, April 29-30, 2015.
- ModComp 2014** 1st International Workshop on Model-Driven Engineering for Component-Based Software Systems, Valencia, Spain, September 29, 2014.
- OrChor 2014** 1st International Workshop on Service Orchestration and Choreography for the Future Internet, Alaska, USA, June 27, 2014.
- €μ-SEAA 2014** 40th EUROMICRO Conference on Software Engineering and Advanced Applications - Special Session on “Model-based development, Components and Services”, and on “Embedded Software Engineering”, Verona, Italy, August 27-29, 2014.
- AFIN 2014** 6th International Conference on Advances in Future Internet, Lisbon, Portugal, November 16-20, 2014.
- ENASE 2014** 9th International Conference on Evaluation of Novel Software Approaches to Software Engineering, Lisbon, Portugal, April 27-29, 2014.
- SOSE 2014** 8th International Symposium on Service-Oriented System Engineering, Oxford, UK, April 7-11, 2014.
- MODELSWARD 2014** 2nd International Conference on Model-Driven Engineering and Software Development, Lisbon, Portugal, January 7-9, 2014.
- WebIST 2014** 10th International Conference on Web Information Systems and Technologies, Barcelona, Spain, April 3-5, 2014.
- NIM-ALP 2013** 5th International Workshop on Non-functional Properties in Modeling: Analysis, Languages, and Processes (previously NFPinDSML), Miami, Florida, USA, September 29, 2013.
- CSE 2013** International Workshop on Cloud and Service Engineering, Aalborg, North Denmark, July 8, 2013.
- €μ-SEAA 2013** 39th EUROMICRO Conference on Software Engineering and Advanced Applications - Special Session on “Model-based development, Components and Services”, and on “Embedded Software Engineering”, Santander, Spain, September 4-6, 2013.
- AFIN 2013** 5th International Conference on Advances in Future Internet, Barcelona, Spain, August 25 - 31, 2013.
- QASBA 2013** 2nd International Workshop on Quality Assurance for Service-based Applications, Lugano, Switzerland, July 15, 2013.
- ENASE 2013** 8th International Conference on Evaluation of Novel Software Approaches to Software Engineering, July 3-7, 2013.
- WebIST 2013** 9th International Conference on Web Information Systems and Technologies, Aachen, Germany, May 2013.
- NFPinDSML 2012** 4th International Workshop on Non-functional System Properties in Domain Specific Modeling Languages, Innsbruck, Austria, September 30 - October 5, 2012.
- €μ-SEAA 2012** 38th EUROMICRO Conference on Software Engineering and Advanced Applications - Special Session on “Model-based development, Components and Services”, and on “Embedded Software Engineering”, September 5-8, 2012.

- ENASE 2012** 7th International Conference on Evaluation of Novel Software Approaches to Software Engineering, June 18 - July 1, 2012.
- WebIST 2012** 8th International Conference on Web Information Systems and Technologies, Porto, Portugal, April 2012.
- ICST 2012** 5th International Conference on Software Testing Verification and Validation, April 17-21, 2012.
- QASBA 2011** International Workshop on Quality Assurance for Service-based applications, September 14, 2011.
- €μ-SEAA 2011** 37th EUROMICRO Conference on Software Engineering and Advanced Applications - Special Session on “Embedded Software Engineering”, August 30 - September 2, 2011.
- CBSE 2011** 14th International Symposium on Component Based Software Engineering - June 21-23, 2011.
- NFPinDSML 2010** 3rd International Workshop on Non-functional System Properties in Domain Specific Modeling Languages, Oslo, Norway, October 3-5, 2010.
- CBSE 2009** 12th International Symposium on Component Based Software Engineering - June 24-26, 2009.
- €μ-SEAA 2009** 35th EUROMICRO Conference on Software Engineering and Advanced Applications - Special Session on “Model Driven Engineering”, August 27-29, 2009.
- NFPinDSML 2009** 2nd International Workshop on Non-functional System Properties in Domain Specific Modeling Languages, Denver, Colorado, USA, October 4-9, 2009.
- AC 2009** IADIS International Conference on Applied Computing, Rome, Italy, November 19-21, 2009.
- NFPinDSML 2008** 1st International Workshop on Non-functional System Properties in Domain Specific Modeling Languages, Toulouse France, September 28 - October 3, 2008.
- AC 2008** IADIS International Conference on Applied Computing, Algarve, Portugal, April 10-13, 2008.
- AC 2007** IADIS International Conference on Applied Computing, Salamanca, Spain, February 18-20, 2007.

REVIEWER

Journals

- COM** IEEE Computer (Magazine, IEEE Computer Society)
- CSI** Computer Standards & Interfaces (Journal, Elsevier)
- COMP** Computing (Journal, Springer-Verlag)
- ESEM** Empirical Software Engineering (Journal, Springer)
- FI** Fundamenta Informaticae (Journal, Polish Mathematical Society)
- EG** Electronic Government, an International Journal (Journal, Inderscience)
- IET-S** IET Software (Journal, IET)
- IJCIS** International Journal of Cooperative Information Systems (Journal, World Scientific Publishing Co. Pte Ltd)
- IST** Information and Software Technology (Journal, Elsevier)
- JISA** Journal of Internet Services and Applications (Journal, Springer)
- JSEP** Journal of Software: Evolution and Process (Journal, Wiley)
- JSS** Journal of Systems and Software (Journal, Elsevier)

SCICO Science of Computer Programming (Journal, Elsevier)

SOFTWARE IEEE Software (Magazine, IEEE Computer Society)

SoSyM Software and Systems Modeling (Journal, Springer)

SPE Software: Practice and Experience (Journal, Wiley)

SQJ Software Quality Journal (Journal, Springer)

STTT International Journal on Software Tools for Technology Transfer (Journal, Springer)

TOSEM Transaction on Software Engineering and Methodology (Journal, ACM)

TSE Transaction on Software Engineering (Journal, IEEE)

LABORATORY/COMPUTER SKILLS

- ◇ **Programming/Scripting/Modeling.** Java, C, C++, UML, HTML, XML, Acceleo, Pascal, PHP, SQL, Unix Shell Programming , etc.
- ◇ **Network Protocols.** Some of much important such as IP, UDP, TCP, SCTP, HTTP, FTP, etc.
- ◇ **System Administration.** Linux, Unix, Windows *.
- ◇ **Productivity Software.** L^AT_EX, The Gimp, Office Suites, etc.
- ◇ **Additional skills.** Eclipse modeling framework (EMF) and related technologies, development of Eclipse Plug-ins, model-driven development (MDD) methodology and related techniques and tools, model transformation, automated code generation.

LANGUAGES

Italian Mother Tongue.

English Good oral and written communication skills.

Comprehension		Speaking		Writing
Listening	Reading	Interaction	Reporting	C1
C2	C2	C2	C1	

Spanish Good oral and written communication skills.

Comprehension		Speaking		Writing
Listening	Reading	Interaction	Reporting	B1
B2	B2	B2	B2	

PUBLICATIONS: INTERNATIONAL JOURNALS

(The following paper has been accepted by the journal international editorial board after a peer-review process)

E. De Angelis, G. De Angelis, M. Mongelli, and M. Proietti. “A Validation Methodology for XAI Decision Support Systems Against Relational Domain Properties.” *Journal of Software: Evolution and Process* **37** (10) (2025). URL <https://doi.org/10.1002/smr.70054>.

M. Barboni, G. De Angelis, A. Morichetta, and A. Polini. “Wielding Blockchain Transactions for Capture-Replay Testing of Upgradeable Smart Contracts.” *ACM Trans. Internet Technol.* (2025). ISSN 1533-5399. Just Accepted, URL <https://doi.org/10.1145/3737699>.

M. Barboni, A. Bertolino, and G. De Angelis. “Flakiness goes live: Insights from an In Vivo testing simulation study.” *Information of Software Technologies* **167**, 107373 (2024). URL <https://doi.org/10.1016/j.infsof.2023.107373>.

- A. Bertolino, G. De Angelis, B. Miranda, and P. Tonella. “In vivo test and rollback of Java applications as they are.” *Software Testing, Verification and Reliability* p. e1857 (2023). URL <https://onlinelibrary.wiley.com/doi/abs/10.1002/stvr.1857>.
- E. De Angelis, G. De Angelis, A. Pellegrini, and M. Proietti. “What makes test programs similar in microservices applications?” *Journal of Systems and Software* **201**, 111674 (2023). ISSN 0164-1212. URL <https://www.sciencedirect.com/science/article/pii/S0164121223000699>.
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- G. De Angelis, A. Ferrari, S. Gnesi, and A. Polini. “Requirements elicitation and refinement in collaborative research projects.” *Journal of Software: Evolution and Process* **30** (12) (2018). URL <https://doi.org/10.1002/smr.1990>.
- M. Autili, A. Bertolino, G. De Angelis, D. Di Ruscio, and A. Di Sandro. “A Tool-Supported Methodology for Validation and Refinement of Early-Stage Domain Models.” *IEEE Trans. Software Eng.* **42** (1), 2–25 (2016).
- M. Ali, F. De Angelis, D. Fani, A. Bertolino, G. De Angelis, and A. Polini. “An Extensible Framework for Online Testing of Choreographed Services.” *IEEE Computer* **47** (2), 23–29 (2014).
- A. Bertolino, G. De Angelis, S. Kellomäki, and A. Polini. “Enhancing Service Federation Trustworthiness through Online Testing.” *IEEE Computer* **45** (1), 66–72 (2012). ISSN 0018-9162.
- T. Kirkham, S. Winfield, T. Haberecht, J. Müller, and G. De Angelis. “The Challenge of Dynamic Services in Business Process Management.” *International Journal for Digital Society* **2** (3), 549–556 (2011). ISSN 2040-2570.
- A. Bertolino, G. De Angelis, A. Di Sandro, and A. Sabetta. “Is my model right? Let me ask the expert.” *Journal of Systems and Software* **84** (7), 1089 – 1099 (2011). ISSN 0164-1212.
- L. Balzerani, G. De Angelis, D. Di Ruscio, and A. Pierantonio. “Supporting Web Applications Development with a Product Line Architecture.” *Journal of Web Engineering* **5** (1), 25–42 (2006). ISSN 1540-9589.

PUBLICATIONS: EDITORIAL MESSAGES ON INTERNATIONAL JOURNALS

- G. De Angelis, H. Do, and B.N. Nguyen. “Introduction to the special issue: ”Software Quality for Modern Systems”.” *J. Softw. Evol. Process.* **36** (8) (2024). URL <https://doi.org/10.1002/smr.2663>.
- A. Bertolino, G. De Angelis, M. Leotta, and F. Ricca. “Introduction to the special issue on test automation: Trends, benefits, and costs.” *Journal of Systems and Software* **203**, 111751 (2023). URL <https://doi.org/10.1016/j.jss.2023.111751>.
- P. Braione, D. Briola, G. De Angelis, F. Gallo, F. Poggi, and G. Quattrocchi. “About the special issue on: ”Distributed Complex Systems: Governance, Engineering, and Maintenance”.” *Journal of Software: Evolution and Process* **34** (10) (2022). URL <https://doi.org/10.1002/smr.2459>.

PUBLICATIONS: BOOK CHAPTERS

(All the following papers have been accepted by the book international editorial board after a peer-review process)

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- M. Autili, A. Ben Hamida, G. De Angelis, and D. Silingas. *Composing Services in the Future Internet: Choreography-Based Approach*, volume Intelligent BPM Systems (iBPMS) Book: Impact and Opportunity, pp. 163–174 (Future Strategies Inc., 2013), 2013 edition. ISBN 978-0-984-97646-1.
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- A. Ben Hamida, F. Kon, G. Ansaldi Oliva, C.E. Moreira Dos Santos, J. Lorré, M. Autili, G. De Angelis, A. Zarras, N. Georgantas, V. Issarny, and A. Bertolino. “An Integrated Development and Runtime Environment for the Future Internet.” In F. Alvarez *et al.* (Editors), *The Future Internet - Future Internet Assembly 2012: From Promises to Reality*, volume 7281 of *LNCS*, pp. 81–92 (Springer, 2012). ISBN 978-3-642-30240-4.
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- E. De Angelis, G. De Angelis, R. Marotta, F. Montesano, A. Pellegrini, and M. Proietti. “Declarative Adaptive Optimization of Task-Based Applications on Heterogeneous Architectures.” In *Proc. of 16th Workshop on Applications for Multi-Core Architectures (WAMCA 2025)*, pp. 1–11 (2025).
- S. Bauco, G. De Angelis, R. Marotta, and A. Pellegrini. “A Model-Driven Platform for Software Applications on Heterogeneous Computing Environments.” In *Proc. of 4th International Workshop on Model-Driven Engineering for Software Architecture, (MDE4SA 2025), ICSC - Companion*, pp. 410–419 (IEEE, 2025). URL <https://doi.org/10.1109/ICSC-C65153.2025.00064>.
- M. Barboni, G. De Angelis, A. Morichetta, and A. Polini. “CATANA: Replay Testing for the Ethereum Blockchain.” In *Proc. of International Conference Testing Software and Systems (ICTSS 2023)*, volume 14131 of *LNCS*, pp. 257–265 (Springer, 2023). URL https://doi.org/10.1007/978-3-031-43240-8_17.

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- M. Barboni, A. Bertolino, and G. De Angelis. “What We Talk About When We Talk About Software Test Flakiness.” In *Proc. of the 14th International Conference Quality of Information and Communications Technology (QUATIC 2021)*, volume 1439 of *CCIS*, pp. 29–39 (Springer, Algarve, Portugal, 2021). URL https://doi.org/10.1007/978-3-030-85347-1_3.
- G. De Angelis and F. Lonetti. “About the Assessment of Grey Literature in Software Engineering.” In *Proc. of the International Workshop on Properties of Software Engineering Research (PROPSEr)*, co-located with the *International Conference on Evaluation and Assessment in Software (EASE 2021)*, pp. 373–378 (ACM, 2021). URL <https://doi.org/10.1145/3463274.3463362>.
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- A. Bertolino, G. De Angelis, F. Lonetti, V. de Oliveira Neves, and M.A. Olivero. “EDUFYSoS: A Factory of Educational System of Systems Case Studies.” In *Proc. of Annual Conference System of Systems Engineering, (SoSE 2020)*, pp. 205–210 (IEEE, Budapest, Hungary, 2019).
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- G. De Angelis, A. Ferrari, S. Gnesi, and A. Polini. “Collaborative requirements elicitation in a european research project.” *In Proc. of the 31st Symposium on Applied Computing (SAC 2016)*, pp. 1282–1289 (ACM, Pisa, Italy, 2016).
- A. Bertolino, G. De Angelis, A. Polini, and D. Šilingas. “Learn PAd : Collaborative and Model-based Learning in Public Administrations.” *In Proc. of the Projects Showcase, part of the Software Technologies: Applications and Foundations (STAF 2015)*, volume 1400 of *CEUR Workshop Proceedings*, pp. 9–17 (CEUR-WS.org, L’Aquila, Italy, 2015).
- A. Bertolino, G. De Angelis, A. Polini, and D. Šilingas. “Learn PAd: Model-based Social Learning for Public Administrations.” *In LET’S 2014 - Leading Enabling Technologies for Societal Challenges* (Bologna, Italy, 2014).
- G. De Angelis, A. Polini, M. Proietti, and G. Stecca. “Knowledge-Intensive Choreographies for Open Manufacturing Production Networks.” *In LET’S 2014 - Leading Enabling Technologies for Societal Challenges* (Bologna, Italy, 2014).
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- C. Trubiani, A. Di Marco, and G. De Angelis. “Using Performance Antipatterns for Mastering Enactments of Service Choreographies on the Cloud.” *In Proc. of the 4th Workshop of the Italian group on Quantitative Methods in Informatics (InfQ 2013)* (Sorrento, Italy, 2013).
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- M. Ali, G. De Angelis, and A. Polini. “ServicePot – An Extensible Registry for Choreography Governance.” *In Proc. of the 7th International Symposium on Service Oriented System Engineering (SOSE 2013)*, pp. 113–124 (IEEE-CS, San Francisco Bay, California, USA, 2013).
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- F. De Angelis, G. De Angelis, and A. Polini. “A Counter-example Testing Approach for Orchestrated Services.” In *Proc. of the 3rd International Conference on Software Testing, Verification and Validation (ICST 2010)*, pp. 373–382 (IEEE Computer Society, Paris, France, 2010).
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- A. Bertolino, G. De Angelis, and A. Sabetta. “VCR: Virtual Capture and Replay for Performance Testing.” In *Proc. of the 23rd International Conference on Automated Software Engineering (ASE 2008)* (IEEE, L’Aquila, Italy, 2008).
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- M. Castaldi, G. De Angelis, and P. Inverardi. “A Reconfiguration Language for Remote Analysis and Application Adaptation.” In A. Orso and A. Porter (Editors), *Proc. of Remote Analysis and Measurement of Software Systems (RAMSS 2003)*, pp. 35–38 (2003).

PUBLICATIONS: TECHNICAL REPORT

(I am co-authoring all the following technical reports from the projects I was involved.)

- E. Marchetti (Editor). *Preliminary report on devised methodologies and tools for verification, testing and QoS evaluation*. Del. R.A.10.1 (The ArtDeco Consortium, 2007).
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