

# LUCIANO BARESI

Dipartimento di Elettronica, Informazione e Bioingegneria  
Via Golgi, 42 - 20133 Milano, Italy  
tel +39 02 2399 3638 (office)  
email [luciano.baresi@polimi.it](mailto:luciano.baresi@polimi.it)

URL for web site: <https://baresi.faculty.polimi.it>  
Unique identifier(s): ORCID: 0000-0001-6467-837X  
Research ID: N-4208-2018  
Google Scholar: user=xvzzSFgAAAAJ  
Scopus: Author ID: 7004855943  
Hindex/citations: 52/10378 (Scholar) – 33/3998 (Scopus)

## Education

1992 Laurea (Master's) degree in Electronic engineering (Computer Science) - Politecnico di Milano  
1997 PhD degree in Computer Science - Politecnico di Milano (advisor: Professor Mauro Pezzè)

## Academic positions

1998-1999 Visiting researcher at University of Oregon – Eugene, USA (jun-sep 1998 and jun-sep 1999)  
2001 Visiting professor at University of Oregon – Eugene, USA (jan-mar)  
2001-2003 Assistant professor, Politecnico di Milano  
2003 Visiting researcher at University of Paderborn, Germany (jan-feb and oct-nov)  
2003-2015 Associate professor, Politecnico di Milano  
2008 Visiting professor at Tongji University, Shanghai, China, in the context of PoliTong and of the Sino-Italian campus (sep-oct)  
2015- Full professor, Dipartimento di Elettronica Informazione e Bioingegneria, Politecnico di Milano

## Awards

1998- CNR (Italian National Research Council) grant, short-term mobility, for the research periods at the University of Oregon (Eugene – USA) (jun-sep)  
2006 IBM Shared University Research (SUR) Award for the project called WS-Testing, with professor Alessandro Orso, Georgia Institute of Technology, USA  
2007 IBM Faculty Award for the project called Development of a curriculum on service engineering, with professor Barbara Pernici, Politecnico di Milano, Italy.  
2020 RE 2020 Most Influential Paper (MIP) Award for the impact of your RE 2010 paper entitled "Fuzzy Goals for Requirements-Driven Adaptation," (co-authored with L. Pasquale and P. Spoletini), which was first presented at the 2010 IEEE International Requirements Engineering Conference in Sydney, Australia.  
2020 ICSOC 2020 Best Paper Award for paper entitled "Feature-Model-Guided Online Reinforcement Learning for Self-Adaptive Services," (co-authored with A. Metzger, C. Quinton, Z. Mann, and K. Pohl), which was presented at the 2020 International Conference on Service-Oriented Computing in Dubai (virtual), United Arab Emirates.

## Teaching activities

2001- Different introductory courses in computer science, software engineering, and software design courses, Politecnico di Milano  
2001 Diagram Languages: UML and Beyond (CIS 410/510), University of Oregon, Eugene, USA  
2007-2010 Service Technologies, master's degree, Politecnico di Milano (course creator)  
2008 Software engineering and Advanced programming, Tongji University, Shanghai, China  
2012- Design and implementation of mobile application, master's degree, Politecnico di Milano (course creator)

## Professional activities

### Politecnico di Milano

- 2009-2011 Chair of the bachelor's degree program in Engineering Computing Systems, Politecnico di Milano, Cremona campus
- 2011-2016 Member of the board of professors of the doctoral program in Information Technology at Politecnico di Milano
- 2013-2017 Co-coordinator of S-Cube, research lab at Politecnico in cooperation with Telecom Italia
- 2017- Responsible of exchange students (e.g., double degrees and Erasmus+ students) for computer engineering students at Politecnico di Milano.
- 2018-2020 Member of the board of professors of the doctoral program in Data Science and Computation at Università di Bologna and Politecnico di Milano

### Organization of scientific meetings

- 2016 General chair, IEEE/IFIP Working Conference on Software Architecture (WICSA, 110 participants)
- 2002 Program co-chair, IEEE International Conference on Engineering of Complex Computer Systems (ICECCS, 40 participants), with M. Hinchey, M. Chen e S. Liu.
- 2006 Program co-chair, ETAPS Fundamental Approaches to Software Engineering (FASE, 150 participants), with R. Heckel
- 2007 Program co-chair, International Conference on Web Engineering (ICWE, 80 participants), with G.-J. Houben
- 2009 Program co-chair, International Conference on Service-oriented Computing (ICSOC, 200 participants), with J. Suzuki e C.H. Chi
- 2012 Program chair, International Symposium on Software Engineering for Adaptive and Self-Managing Systems (SEAMS, 50 participants)
- 2013 Program co-chair, Joint meeting of the European Software Engineering Conference and the ACM SIGSOFT Symposium on the Foundations of Software Engineering (ESEC/FSE, 300 participants), with Mira Mezini
- 2019-2020 Program co-chair, IEEE International Conference on Service Computing, held as part of the IEEE Service Congress.
- 2005- Workshop chair for the Joint meeting of the European Software Engineering Conference and the Symposium on the Foundations of Software Engineering (ESEC/FSE, 300 participants) (2005), the International Conference on Software Engineering (ICSE, 1000 participants), (2009) (with V. Braberman), and the International Requirements Engineering Conference (RE, 100 participants), 2011 (with D. Amyot). I was publicity chair for the International Software Metrics Symposium (Metrics, 100 participants) (2005), poster chair for International Conference on Software Engineering (ICSE, 1000 participants) (2013), and local arrangement chair for the Joint meeting of the European Software Engineering Conference and the Symposium on the Foundations of Software Engineering (ESEC/FSE, 300 participants), 2015 (with Angelo Gargantini).
- 2013 Co-organizer, Customizing Service Platforms, Dagstuhl seminar, with Heiko Ludwig, Andreas Rummler, and Klaus Schmid (April 2013)
- 2014 Co-organizer, Feature Interactions: The Next Generation, Dagstuhl seminar, with Sven Apel, Pamela Zave, and Jo Atlee (July 2014)
- 2003-2017 Workshop co-organizer: International Workshop on Ubiquitous Mobile Information and Communication Systems, satellite event of CAISE (UMICS) 2003 and 2004 (with S. Dustdar, H. Gall, and M. Matera), International Workshop on Service-Oriented Computing: Consequences for Engineering Requirements, satellite event of RE (SOCCER) 2005, 2006, 2007, 2008, and 2011 (with N. Maiden), International Workshop on Model-based Modernization of Complex Software Systems, satellite event of ECDMA (MMSS) 2008 (with J. Bezivin), Workshop on Services, Clouds, and Alternative Design Strategies for Variant-Rich Software Systems, satellite event of SPLC 2011 and 2012 (with Karina Villela, Sholom Cohen, Jaejoon Lee, and Klaus Schmid), Third International Workshop on Engineering Multi-Agent Systems, satellite event of AAMAS 2015 (with Matteo Baldoni and Mehdi Dastani), International Workshop on BIG Data Software Engineering, satellite event of ICSE 2015 and 2016 (with Tim Menzies, Andreas Metzger, and Thomas Zimmermann), and Tenth International Workshop on Dynamic Software Product Lines - Adaptive Systems through Runtime Variability, satellite event of SPLC 2017 (with Jesper Anderson, Rafael Capilla, and Holger Eichelberger).

## Reviewer for and editorial boards

- 2001- Member of many scientific program committees. The most important ones are: International Conference on Service-Oriented Computing, Conference on Web Services, International Conference on Software Engineering, European Software Engineering Conference, Symposium on the Foundations of Software Engineering, Symposium on Software Engineering for Adaptive and Self-Managing Systems, Self-Adaptive and Self-Organizing Systems Conference, and International Conference on Autonomic Computing
- 2004- External reviewer/member of the evaluation committee for 22 PhD dissertations at universities in Italy, UK, France, Australia, Canada, India, Germany, Austria, Sweden, and Brazil
- 2005- Project evaluator and reviewer for: European Union, Netherlands Organisation for Scientific Research (Netherlands), Mitacs (Canada), Vienna Science and Technology Fund (Austria), National Council for Scientific Research (Romania), Fundação para a Ciência e a Tecnologia (Portugal), TrentoRISE (Italy), INRIA (France), Israel Science Foundation (Israel), Provincia Autonoma di Trento (Italy), Regione Puglia (Italy), Swiss Science Foundation (Switzerland), and Icelandic Research Fund (Iceland)
- 2009-2015 Editorial board member, Service Oriented Computing and Applications (Springer)
- 2012- Editorial board member, Transactions on Autonomous and Adaptive Systems (ACM)
- 2013-2017 Editorial board member, Transactions on Software Engineering (IEEE)
- 2013- Editorial board member, Transactions on Service Computing (IEEE)
- 2016- Editorial board member, Requirements Engineering (Springer)
- 2018- Editorial board member, IEEE Software (IEEE)
- 2020- Editorial board member, Science of Computer Programming (Elsevier)

## Other activities

- 2012-2016 Co-founder and chair of the IFIP WG on Services-Oriented Systems (2.14, 6.12, 8.10)
- 2015- Chair of the Steering Committee of the European Software Engineering Conference, and from 2018 of the integrated Steering Committee of the European Software Engineering Conference and of the Symposium on the Foundations of Software Engineering
- 2015- Member, Association for Computing Machinery (ACM)
- 2020- Member of the Research Committee at Free University of Bolzano (Italy)

## Young researchers

### PhD students

**Advisor:** Naser Derakhshan (2016), Sam Guinea (2007, co-advised with Carlo Ghezzi), Anita Imani (2016), Danilo Mendonça (2019), Matteo Miraz (2010), Alfredo Motta (2012), Liliana Pasquale (2010), Mohammad Pourhashem (2015), Giovanni Quattrocchi (2016), Mersedeh Sadeghi (2018), Adnan Shahzada (2015).

**External reviewer:** Anna Rita Laurenzi, Univeristà dell'Aquila (Italy), 2004, Fabio De Rosa, Università di Roma la Sapienza (Italy), 2006, Khaled Mahbub, City University London (UK), 2006, Cristina Marin, Universite Grenoble 1 (France), 2008, Dhaminda Buddhika Abeywickrama, Monash University (Australia), 2010, Jocelyn Simmonds, University of Toronto (Canada), 2010, Fabiano Dalpiaz, Università di Trento (Italy), 2011, Vikas Agarwal, Indian Institute of Technology, Kanpur (India), 2011, Garth Heward, Swinburne University of Technology (Australia), 2012, Asli Zengin, Università di Trento (Italy), 2012, Heorhi Raik, Università di Trento (Italy), 2012, Walter Rudametkin Ivey, Universite Grenoble 1 (France), 2013, Adina Sirbu, Università di Trento (Italy), 2013, Basil Becker, University of Potsdam (Germany), 2014, Gil Didac, Linnaeus University (Sweden), 2014, Christian Inzinger, Technical University Vienna (Austria), 2014, Abel Silva Lizcano, Politecnico di Milano, PhD program in Spatial Planning and Urban Development, 2014, Felipe Pontes Guimarães, Universidade de Sao Paulo (Brasil), 2017, Luigi Manco, Università del Salento (Italy), 2017, Martina De Sanctis, Università di Trento/FBK (Italy), 2018, Edith Zavala, Universitat, Politecnica de Catalunya (Spain), 2019, Antonio Teofilo, Universidade Nova de Lisboa (Portugal), 2020, Alessandro Aliberti Politecnico di Torino (Italy), 2020.

### Post-doc researchers

Martin Garriga (past), Valerio Panzica La Manna (past), Giovanni Quattrocchi, Clement Quinton (past), Nicholas Rasi, Konstantin Rubinov (past), Yu Zhu (past).

## Research projects

### Principal investigator at the Politecnico di Milano

- 2006-2008 MOMOCS (MOdel driven MODernisation of Complex Systems): EU FP6 (Specific Targeted Research Project): IST-2005-2.5.5 - Software and Services

- 2008-2011 SLA@SOI (Empowering the Service Economy with SLA-aware Infrastructures), EU FP7 (Collaborative project): ICT-2007.1.2 - Service and software architectures, infrastructures and engineering
- 2010-2012 MADES (Model-based methods and tools for Avionics and surveillance embeddeD SystEmS), EU FP7 (Collaborative project): ICT-2009.3.4 - Embedded Systems Design
- 2010-2013 INDENICA (Engineering Virtual Domain-Specific Service Platforms). EU FP7 (Collaborative project): ICT-2009.1.2 - Internet of Services, Software and Virtualisation
- 2012-2014 SITAD (Sistema Integrato di Telemedicina e Assistenza Domiciliare) - Regione Lombardia e Ministero dell'Istruzione, Università e Ricerca
- 2014-2017 EEB – Edifici A Zero Consumo Energetico In Distretti Urbani Intelligenti (Italian Technology Cluster for Smart Communities) - PON Ricerca e Competitività, Ministero dell'Istruzione, Università e Ricerca
- 2014-2021 ITS Italy 2020 - Soluzioni ICT a supporto della logistica e dei processi di trasporto (Italian Technology Cluster on Transportation). – PON Ricerca e Competitività, Ministero dell'Istruzione, Università e Ricerca
- 2016-2018 Sistema innovativo di Big Data Analytics. Accordi di Competitività della Regione Lombardia
- 2016-2018 Dossier-cloud (DevOps-based Software Engineering for the Cloud. EU H2020 (Coordination and support action): H2020-TWINN-2015 – Twinning
- 2017 MeMoSa (in-car Media Entertainment Mobility and Safety). EIT (European Institute of Innovation and Technology) Digital
- 2017-2020 Gauss (Governing Adaptive and Unplanned Systems of Systems), Italian Ministry of Education, University and Research, PRIN program
- 2019-2022 Sisma (Solutions for Engineering Microservices Architectures), Italian Ministry of Education, University and Research, PRIN program

#### **Technical coordinator**

- 2014-2015 Giocosio (Giochi pediatrici per la comunicazione e la socializzazione). Smart Cities and Communities - Regione Lombardia
- 2014-2018 PSC (Piattaforma dei servizi nel settore della giustizia civile). Smart Cities and Communities, Ministero dell'Istruzione, Università e Ricerca
- 2020-2023 ICT4D: Innovation Space as an Interface between Eduardo Mondlane University and Mozambican Society by promoting Science, Technology and Innovation. Supported by the Italian Agency for Cooperation and Development

## **Tutorials**

### **Graph transformation systems**

- Luciano Baresi and Reiko Heikel. Foundations and Applications of Graph Transformation. 1st International Conference on Graph Transformation. October 2002
- Luciano Baresi and Reiko Heikel. Tutorial Introduction to Graph Transformation: A Software Engineering Perspective. 2nd International Conference on Graph Transformation. October 2004

### **Web quality**

- Luciano Baresi and Sandro Morasca. An Introduction to Web Quality. 4th International Conference on Web Engineering. July 2004

### **Web services**

- Luciano Baresi, Maristella Matera, and Pierluigi Plebani. Models and Technologies for e-Service Composition. 1st ICSOC. December 2003
- Luciano Baresi and Sam Guinea. An Introduction to Self-healing Web Services. 10th IEEE International Conference on the Engineering of Complex Computer Systems. June 2005
- Luciano Baresi and Sam Guinea. An Introduction to Self-healing Web Services. 10th European Software Engineering Conference and 13th ACM SIGSOFT International Symposium on the Foundations of Software Engineering. September 2005
- Luciano Baresi and Sam Guinea. Towards Dynamic Web Services. 28th International Conference on Software Engineering. May 2006
- Luciano Baresi, Elisabetta Di Nitto, and Massimiliano Di Penta. Monitoring of Service Oriented Systems and Recovery Actions. 5th ICSOC. September 2007

- Luciano Baresi. Microservices, Containers and Software Engineering. 14th International Summer School on Software Engineering. July 2019 Salerno (Italy)

### **Self-\* systems**

- Luciano Baresi. Adaptive and Self-Managing Systems. 7th International Summer School on Software Engineering. July 2010 Salerno (Italy)
- Luciano Baresi and Sam Guinea. Architectural Styles for Adaptive Systems. 6th International Conference on Self-Adaptive and Self-Organizing Systems. September 2012, Lyon (France)
- Luciano Baresi. Adaptive and Self-Managing Systems. 3rd Brazilian Conference on Software: Theory and Practice (CBSOFT). September 2012, Natal (Brazil)

### **Invited presentations**

- Luciano Baresi. A Comprehensive Framework for the Development of Complex Smart Spaces. Friday Informatics Seminars, UCI - Irvine (USA), March 2015.
- Luciano Baresi. Self-adaptive systems, services, and product lines. 18th International Software Product Line Conference, September 2014.
- Luciano Baresi. My first ten years with self-adaptive software. 3rd International Workshop on Variability in Software Architecture (VARSA), satellite event of WICSA, April 2014.
- Luciano Baresi. Is runtime validation really needed? 2nd International Workshop on Quality Assurance for Service-based applications, satellite event of ISSTA, July 2013.
- Luciano Baresi. Software Engineering and Multi-Agent Systems (in the context of Self-\* Software). The workshop on Engineering Multi-Agent Systems (EMAS), satellite of AAMAS, May 2013.
- Luciano Baresi. My first ten years with self-adaptive software. The Symposium on Software Complexity and Evolution: Advances and Visions (Trento), February 2013.
- Luciano Baresi. Self-adaptive Service Compositions. The 2008 Middleware for Web Services (MWS 2008) Workshop, satellite event of EDOC, 2008.
- Luciano Baresi. A Dynamic and Reactive Approach to the Supervision of BPEL Processes. Presented at IBM T.J. Watson New York (USA), July 2008
- Luciano Baresi. SoA and Web 2.0: Married or Engaged? 9th IEEE Symposium on Web Site Evolution, satellite event of ICSM, 2007.
- Luciano Baresi. Towards Dynamic Web Services. The ICSE 2006 Workshop on Software Engineering for Adaptive and Self-Managing Systems (SEAMS), 2006.
- Luciano Baresi and Mauro Pezzè. Petri Nets as Semantic Domain for Diagram Notations. In Proceedings of the Workshop on Petri Nets and Graph Transformations, satellite event of ICGT 2004. Electronic Notes in Theoretical Computer Science, vol. 127(2), 29-44, 2005.
- Luciano Baresi and Mauro Pezzè. Can Graph Grammars make Formal Methods more Human? In Proceedings of the Workshop on Graph Transformation and Visual Modeling Techniques, satellite event of ICALP 2000. Proceedings of ICALP Workshops 2000, 387-394. July 2000.

### **Publications**

#### **Ten most representative publications (in the last 10 years)**

- Luciano Baresi, Alberto Leva e Giovanni Quattrocchi: Fine-Grained Dynamic Resource Allocation for Big-Data Applications. IEEE Trans. Software Eng. (early access).
- Luciano Baresi, Danilo Filgueira Mendonca, Martin Garriga, Sam Guinea, Giovanni Quattrocchi: A Unified Model for the Mobile-Edge-Cloud Continuum. ACM Transactions on Internet Technology. 9(2) art. 29, April 2019
- Luciano Baresi, Giovanni Denaro, Giovanni Quattrocchi: Symbolic Execution-driven Extraction of the Parallel Execution Plans of Spark Applications. In Proceedings of the European Software Engineering Conference and International Symposium on the Foundations of Software Engineering, 246-256, August 2019.
- Luciano Baresi, Angelo Morzenti, Alfredo Motta, Mohammad Mehdi Pourhashem, Matteo Rossi: A Logic-based Approach for the Verification of UML Timed Models. ACM Transactions on Software Engineering and Methodology 26(2): art. 7:1-47, 2017.
- Luciano Baresi, Márcio Eduardo Delamaro, Paulo A. Nardi: Test Oracles for Simulink-like Models. Automated Software Engineering 24(2): 369-391, 2017.

- Luciano Baresi, Carlo Ghezzi, Xiaoxing Ma, Valerio Panzica La Manna: Efficient Dynamic Updates of Distributed Components Through Version Consistency. *IEEE Transactions on Software Engineering* 43(4): 340-358, 2017.
- Luciano Baresi, Sam Guinea, Alberto Leva, Giovanni Quattrocchi: A Discrete-time Feedback Controller for Containerized Cloud Applications. In *Proceedings of the International Symposium on the Foundations of Software Engineering*, 217-228, 2016.
- Luciano Baresi, Mohammad Mehdi Pourhashem Kallehbasti, Matteo Rossi: Efficient Scalable Verification of LTL Specifications. In *Proceedings of the 37th International Conference on Software Engineering*, 711-721, 2015.
- Luciano Baresi, Carlo Ghezzi, Luca Mottola: Loupe: Verifying Publish-Subscribe Architectures with a Magnifying Lens. *IEEE Transactions on Software Engineering* 37(2): 228-246, 2011.
- Luciano Baresi, Sam Guinea: Self-Supervising BPEL Processes. *IEEE Transactions on Software Engineering* 37(2): 247-263, 2011.

## Journal articles

- Mohammad Mehdi Pourhashem Kallehbasti, Matteo Rossi, Luciano Baresi: On How Bit-Vector Logic Can Help Verify LTL-based Specifications. *IEEE Trans. Software Eng.* (to appear)
- Clément Quinton, Michael Vierhauser, Rick Rabiser, Luciano Baresi, Paul Grünbacher, Christian Schumayer: Evolution in Dynamic Software Product Lines. *Journal of Software: Evolution and Process*, 33:2, e2293 (2021)
- Luciano Baresi, William G. Griswold, Grace A. Lewis, Marco Autili, Ivano Malavolta, Christine Julien: Trends and Challenges for Software Engineering in the Mobile Domain. *IEEE Software* (to appear)
- Christos Tsigkanos, Martin Garriga, Luciano Baresi, Carlo Ghezzi: Cloud Deployment Tradeoffs for the Analysis of Spatially Distributed Systems of Internet-of-Things. *ACM Trans. Internet Techn.* 20(2): 17:1-17:23 (2020)
- Luciano Baresi, Alberto Leva, Giovanni Quattrocchi: Fine-Grained Dynamic Resource Allocation for Big-Data Applications. *IEEE Trans. Software Eng.* (early access)
- Luciano Baresi, Danilo Filgueira Mendonça, Martin Garriga, Sam Guinea, Giovanni Quattrocchi: A Unified Model for the Mobile-Edge-Cloud Continuum. *ACM Trans. Internet Techn.* 19(2): 29:1-29:21 (2019)
- Konstantin Rubinov, Luciano Baresi: What Are We Missing When Testing Our Android Apps? *IEEE Computer* 51(4): 60-68 (2018)
- Giovanni Meroni, Luciano Baresi, Marco Montali, Pierluigi Plebani: Multi-party business process compliance monitoring through IoT-enabled artifacts. *Inf. Syst.* 73: 61-78 (2018)
- Luciano Baresi, Márcio Eduardo Delamaro, Paulo Augusto Nardi: Test oracles for simulink-like models. *Autom. Softw. Eng.* 24(2): 369-391 (2017)
- Rick Rabiser, Sam Guinea, Michael Vierhauser, Luciano Baresi, Paul Grünbacher: A comparison framework for runtime monitoring approaches. *J. Syst. Softw.* 125: 309-321 (2017)
- Luciano Baresi, Angelo Morzenti, Alfredo Motta, Mohammad Mehdi Pourhashem Kallehbasti, Matteo Rossi: A Logic-Based Approach for the Verification of UML Timed Models. *ACM Trans. Softw. Eng. Methodol.* 26(2): 7:1-7:47 (2017)
- Luciano Baresi, Carlo Ghezzi, Xiaoxing Ma, Valerio Panzica La Manna: Efficient Dynamic Updates of Distributed Components Through Version Consistency. *IEEE Trans. Software Eng.* 43(4): 340-358 (2017)
- Danilo Filgueira Mendonça, Genáina Nunes Rodrigues, Raian Ali, Vander Alves, Luciano Baresi: GODA: A goal-oriented requirements engineering framework for runtime dependability analysis. *Inf. Softw. Technol.* 80: 245-264 (2016)
- Luciano Baresi, Matteo Miraz, Pierluigi Plebani: A distributed architecture for efficient Web service discovery. *Service Oriented Computing and Applications* 10(1): 1-17 (2016)
- Luciano Baresi, Gundula Blohm, Dimitrios S. Kolovos, Nicholas Drivalos Matragkas, Alfredo Motta, Richard F. Paige, Alek Radjenovic, Matteo Rossi: Formal verification and validation of embedded systems: the UML-based MADES approach. *Software and Systems Modeling* 14(1): 343-363 (2015)
- Luciano Baresi, Carlo Ghezzi: A journey through SMScom: self-managing situational computing. *Comput. Sci. Res. Dev.* 28(4): 267-277 (2013)
- Yu Zhou, Luciano Baresi, Matteo Rossi: Towards a Formal Semantics for UML/MARTE State Machines Based on Hierarchical Timed Automata. *J. Comput. Sci. Technol.* 28(1): 188-202 (2013)
- Luciano Baresi, Sam Guinea, Liliana Pasquale: Service-Oriented Dynamic Software Product Lines. *IEEE Computer* 45(10): 42-48 (2012)

- Luciano Baresi, Angelo Morzenti, Alfredo Motta, Matteo Rossi: A logic-based semantics for the verification of multi-diagram UML models. *ACM SIGSOFT Software Engineering Notes* 37(4): 1-8 (2012)
- Danilo Ardagna, Luciano Baresi, Sara Comai, Marco Comuzzi, Barbara Pernici: A Service-Based Framework for Flexible Business Processes. *IEEE Software* 28(2): 61-67 (2011)
- Luciano Baresi, Carlo Ghezzi, Luca Mottola: Loupe: Verifying Publish-Subscribe Architectures with a Magnifying Lens. *IEEE Trans. Software Eng.* 37(2): 228-246 (2011)
- Luciano Baresi, Sam Guinea: Self-Supervising BPEL Processes. *IEEE Trans. Software Eng.* 37(2): 247-263 (2011)
- Luciano Baresi, Sam Guinea, Olivier Nano, George Spanoudakis: Comprehensive Monitoring of BPEL Processes. *IEEE Internet Comput.* 14(3): 50-57 (2010)
- Vahid Rafe, Adel Torkaman Rahmani, Luciano Baresi, Paola Spoletini: Towards automated verification of layered graph transformation specifications. *IET Softw.* 3(4): 276-291 (2009)
- Luciano Baresi, Carlo Ghezzi, Andrea Mocci, Mattia Monga: Using Graph Transformation Systems to Specify and Verify Data Abstractions. *ECEASST* 10 (2008)
- Luciano Baresi, Vahid Rafe, Adel Torkaman Rahmani, Paola Spoletini: An Efficient Solution for Model Checking Graph Transformation Systems. *Electron. Notes Theor. Comput. Sci.* 213(1): 3-21 (2008)
- Luciano Baresi, Domenico Bianculli, Carlo Ghezzi, Sam Guinea, Paola Spoletini: Validation of web service compositions. *IET Softw.* 1(6): 219-232 (2007)
- Luciano Baresi, Elisabetta Di Nitto, Carlo Ghezzi, Sam Guinea: A framework for the deployment of adaptable web service compositions. *Service Oriented Computing and Applications* 1(1): 75-91 (2007)
- Luciano Baresi, Sandro Morasca: Three empirical studies on estimating the design effort of Web applications. *ACM Trans. Softw. Eng. Methodol.* 16(4): 15 (2007)
- Luciano Baresi, Elisabetta Di Nitto, Carlo Ghezzi: Toward Open-World Software: Issue and Challenges. *IEEE Computer* 39(10): 36-43 (2006)
- Luciano Baresi, Andrea Maurino, Stefano Modafferi: Towards Distributed BPEL Orchestrations. *ECEASST* 3 (2006)
- Luciano Baresi, Mauro Pezzè: An Introduction to Software Testing. *Electron. Notes Theor. Comput. Sci.* 148(1): 89-111 (2006)
- Luciano Baresi, Reiko Heckel, Sebastian Thöne, Dániel Varró: Style-based modeling and refinement of service-oriented architectures. *Software and Systems Modeling* 5(2): 187-207 (2006)
- Luciano Baresi, Michal Young: Toward Translating Design Constraints to Run-Time Assertions. *Electron. Notes Theor. Comput. Sci.* 116: 73-84 (2005)
- Luciano Baresi, Mauro Pezzè: Petri Nets as Semantic Domain for Diagram Notations. *Electron. Notes Theor. Comput. Sci.* 127(2): 29-44 (2005)
- Luciano Baresi, Mauro Pezzè: Formal interpreters for diagram notations. *ACM Trans. Softw. Eng. Methodol.* 14(1): 42-84 (2005)
- Luciano Baresi, Marco Mauri, Mauro Pezzè: PLCTools: Graph Transformation Meets PLC Design. *Electron. Notes Theor. Comput. Sci.* 72(2): 79 (2002)
- Luciano Baresi, Mauro Pezzè: Improving UML with Petri nets. *Electron. Notes Theor. Comput. Sci.* 44(4): 107-119 (2001)
- Luciano Baresi, Mauro Pezzè: Toward Formalizing Structured Analysis. *ACM Trans. Softw. Eng. Methodol.* 7(1): 80-107 (1998)
- Cristiana Bolchini, Luciano Baresi: Software methodologies in VHDL code analysis. *J. Syst. Archit.* 44(1): 3-21 (1997)
- Sergio Bandinelli, Luciano Baresi, Alfonso Fuggetta, Luigi Lavazza: Experiences in the Implementation of a Process-centered Software Engineering Environment Using Object-Oriented Technology. *TAPOS* 1(2): 115-131 (1995)

#### Journal special issues

- Luciano Baresi, Luca Mottola, Schahram Dustdar: Building Software for the Internet of Things. *IEEE Internet Comput.* 19(2): 6-8 (2015)
- Luciano Baresi, Hausi A. Müller: Introduction to the Special Section on Best Papers from SEAMS 2012. *ACM Trans. Auton. Adapt. Syst.* 8(4): 16:1 (2014)
- Luciano Baresi, Piero Fraternali, Geert-Jan Houben: Editorial. *J. Web Eng.* 8(1): 1-2 (2009)

- Luciano Baresi, Schahram Dustdar, Harald C. Gall, Maristella Matera: Special issue on ubiquitous mobile information and collaboration systems (UMICS). *Personal and Ubiquitous Computing* 9(5): 261-261 (2005)
- Luciano Baresi, Mauro Pezzè, Gabriele Taentzer: Introduction - Graph Transformation and Visual Modeling Techniques - GT-VMT 2001. *Electron. Notes Theor. Comput. Sci.* 50(3): 325-326 (2001)

### National journals

- Luciano Baresi e Edoardo Vannutelli. L'Ipod e l'autismo infantile. *e-HealthCare* - n. 26, 100-102, september/october 2013 (in italian).
- Luciano Baresi, Stefania Carmeli, Antonello Monti, and Mauro Pezzè. La norma IEC1131-3: Un Approccio Formale. *Automazione e Strumentazione*, 139-145, May 1999 (in italian).
- Luciano Baresi, Stefania Carmeli, Antonello Monti, and Mauro Pezzè. Un Approccio Formale ed Eterogeneo per la Progettazione di Sistemi Ibridi. *Automazione e Strumentazione*, 107-114, December 1997 (in italian).

### Books

- Luciano Baresi and E. Di Nitto (edited by). *Test and Analysis of Web Services*. Springer. September 2007.
- Luciano Baresi, Luigi Lavazza, and Massimiliano Piacamore. *Dall'idea al codice con UML 2*. Pearson Education Italia. June 2006. In Italian.

### Exercise books

- Luciano Baresi, Marco Brambilla, Cinzia Cappiello, and Pierluigi Plebani. *EUCIP --- Esercitazioni. Tecniche nuove*. October 2005. In Italian.
- Luciano Baresi, Chiara Francalanci, Fabio Schreiber, and Letizia Tanca. *Progettazione Integrata di dati e funzioni --- Esercizi svolti e commentati con i Modelli Entità-Relazioni, Data Flow e Unified Modeling Language (UML)*. Esculapio editore. September 2003. In Italian.

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