# BARBARA RE

Curriculum Vitae et Studiorum

## SHORT BIO

I got a PhD in Information Science and Complex Systems from the University of Camerino in March 2010 with a dissertation on the "quality of services in e-government". During the Ph.D. program I collaborated with the University of Washington and the University of Applied Sciences Northwestern Switzerland. My research interests include: applied formal methods; business process management from modeling to analysis; flexibility in process aware information systems; methodologies and technologies for smart government and ambient assisted living development. I was involved in multidisciplinary research projects in collaboration with national and international research institutes and companies. Currently I am involved in the EU FP7 ICT project Learn PAd where I am leader of one work-package. I am the author of several papers published in conference proceedings and journals.

## EDUCATION

**March 2010: Phd in Information Science and Complex Systems (XXI cycle), University of Camerino**
PhD Thesis: Quality of (Digital) Services in e-Government
Advisor: Prof. Flavio Corradini

**October 2006: Master Degree in Computer Science, University of Camerino**
Thesis: "Un modello di qualità per servizi di e-Government"
Advisor: Prof. Flavio Corradini, Co-Advisor: Ing. Alberto Polzonetti
Final mark: full marks and honours (110/110 e Lode)

**October 2004: Bachelor Degree in Computer Science, University of Camerino**
Thesis: "Un sistema di qualità per il reperimento di servizi Web in ambito biomedico"
Advisor: Prof.ssa Emanuela Merelli
Final mark: full marks and honours (110/110 e Lode)

## FORMATIVE EXPERIENCES

**October - December 2008: Visiting Phd**
**University of Applied Sciences Northwestern Switzerland.**
In 2008 I spent three months in the Business School at the University of Applied Sciences Northwestern Switzerland. Under the supervision of Prof. Knut Hinkelmann I have been involved in researches in the area of business process management working in the EU project "MATURE - Continuous Social Learning in Knowledge Networks" (FP7-ICT-2007-4.1 - "Digital libraries and technology-enhanced learning").

**November - December 2007/May - June 2008: Visiting Phd**
**University of Washington**
In 2007/2008 I spent four months in the Information School at the University Washington. Under the supervision of Prof. Jochen Scholl I have been involved in researches in the area of e-government working in the EU project "m-City" funded by "National Science Foundation" (Grant No. 0535088).

**1 - 6 June 2009: Summer School, University of Bologna, Bertinoro**
I attended the 9th International School on Formal Methods for the Design of Computer, Communication and Software Systems: Web Services.

**8 - 14 July 2007: Summer School, Cercedilla, Spain**
5th European Summer School on Ontological Engeenering and the Semantic Web (SSSW07), OntoWeb Network Consortium - Knowledge Web Network of Excellence.

## RESEARCH ACTIVITIES

### Research Interests

- Applied Formal Methods.

- Business Process Management: from Modeling to Analysis.

- Flexibility in Process Aware Information Systems.

- Methodologies and Technologies for Smart Government and Ambient Assisted Living development.

### Research and Innovation Projects

### European Project

**"Learn PAd - Model-Based Social Learning for Public Administrations"**
**Call**: FP7-ICT-2013.8.2 Technology-enhanced learning.
**Starting Date and Duration**: February 2014, 30 months.
**Overall Budget**: 3.532.993,00 euro (UniCam Budget 364.320,00 euro).
**Objective**: Learn PAd is going to build an innovative holistic e-learning platform for PAs that enables process-driven learning and fosters cooperation and knowledge sharing. Learn PAd technical innovation is based on four pillars: (i) a new concept of model-based e-learning; (ii) open and collaborative e-learning content management; (iii) automatic, learner-specific and collaborative content quality assessment; and (iv) automatic model-driven simulation-based learning and testing.
**Partners**: CNR (coordinator), UniCam, BOC Asset Management GmbH, Linagora GSO, No Magic Europe, Regione Marche, FHNW, University of l'Aquila, XWiki SAS.
**Role**: I am currently involved as a member of the UniCam unit, and leader of the demonstrator work-package.

### National Project(s)

**"OCP - Open City Platform"**
**Call**: MIUR - Smart Cities and Communities D.D. 391/Ric del 5 luglio 2012.
**Starting Date and Duration**: January 2014, 30 months.
**Overall Budget**: 11.949.448,89 euro (UniCam Budget 861.000,00 euro).
**Objective**: OCP is going to innovate the provisioning of services by local governments to citizens, businesses and other government departments with a cloud computing solution, open, interoperable,

standards-compliant that can be used on-demand.

**Partners**: INFN (coordinator), UniCam, Almaviva, Maggioli, Santer Reply, 17 small and medium companies from Marche, Toscana and Emilia Romagna Region.

**Role**: I am currently involved as a member of the UniCam unit, and I am leader of the open data e open service work-package.

### "CINA - Compositionality, Interaction, Negotiation, Autonomicity"

**Call**: MIUR - PRIN 2012, D.M. 2/ric - 12/01/2012.

**Starting Date and Duration**: Febbruary 2013, 36 months.

**Overall Budget**: 536.599,00 euro (UniCam Budget 59.000,00 euro).

**Objective**: This project deals with the issues related to the development and management of open-ended IT systems consisting of heterogeneous, highly parallel, massively distributed components with complex interactions and behaviours, and with autonomy in terms of individual behaviour, objectives and decision-making.

**Partners**: IMT (coordinator), ISTI-CNR, and University of Bologna, Camerino, Firenze, Genova, Pisa, Torino and Venezia.

**Role**: I was member of the UniCam unit.

### "CREMU - Sistema per il Controllo REmoto del Movimento Umano"

**Call**: Regione Marche - POR MARCHE 2007-2013, Intervento 1.1.1.04.02 - "Promozione della ricerca industriale e dello sviluppo sperimentale in filiere tecnologico-produttive" Bando 2012.

**Starting Date and Duration**: July 2014, 18 months.

**Overall Budget**: 1.150.000,00 euro (UniCam Budget 60.000,00 euro).

**Partners**: Sigma SpA (coordinator), Istituto di Riabilitazione S. Stefano SpA and Centro Ortopedico Marchigiano Srl.

**Objective**: The project deals with the design and development of a platform which enables the remote delivery and control of physical rehabilitation.

**Role**: I was scientific leader and member of the UniCam unit.

### "EcoSmartLight - Illuminazione comandata e controllata attraerso rete cellulare"

**Call**: Regione Marche - POR MARCHE 2007-2013, Intervento 1.1.1.04.02 - "Promozione della ricerca industriale e dello sviluppo sperimentale in filiere tecnologico-produttive" Bando 2012.

**Starting Date and Duration**: January 2014, 18 months.

**Overall Budget**: 600.000,00 euro (UniCam Budget 60.000,00 euro).

**Objective**: The project dealt with the design and development of a software system for a public lighting control room.

**Partners**: SORGENIA Srl (coordinator), SPETRON Sas e ITE Srl.

**Role**: I was scientific leader and member of the UniCam unit.

### "S2CRM - Semantic-Social Customer Relationship Management"

**Call**: Regione Lazio - Coresearch, progetti di Ricerca e Sviluppo.

**Starting Date and Duration**: October 2013, 24 months.

**Overall Budget**: 750.159,54 euro (UniCam Budget 187.548,00 euro).

**Partner**: Filippetti SpA (coordinator).

**Objective**: The project dealt with the design and development of a customer relationship management integrating social media as a novel channel for customer engagement.

**Role**: I was scientific leader and member of the UniCam unit.

### "Scrivania"

**Call**: Regione Lazio - Coresearch, progetti di Ricerca e Sviluppo.

**Starting Date and Duration**: March 2012, 18 months.

**Overall Budget**: 699.714,00 euro (UniCam Budget 175.000,00 euro).

**Partner**: Retis Consulthink Srl (coordinator).

**Objective**: The project dealt with the design and development of a platform enabling transparency of

the Public Administration. It allows citizens to search, import, organize, use and evaluate information and interactive services offered by the public administration.

**Role**: I was scientific leader and member of the UniCam unit.

**"PAss - Private Assisted House per la longevità attiva e indipendente dell'anziano"**
**Call**: Regione Marche - "Bando per la selezione di proposte progettuali finalizzate allo sviluppo di piattaforme di integrazione dedicate all'active aging e all'ambient assisted living" (DGR 1464 - 7/11/2011).
**Starting Date and Duration**: January 2013, 24 months.
**Overall Budget**: 3.680.000,00 euro (UniCam Budget 423.200,00 euro).
**Objective**: The project dealt with the implementation of a novel service model for a "Private Assisted House" to support the longevity of an elderly person at his house, place where people can continue doing the usual activities both in case of an independent life and a family's life. The project deals also with the design of a cloud platform supporting the integration of smart objects available inside the house.
**Role**: I was involved as member of UniCam group with the responsibility of the overall project management.

## Support Activities

## Journal (Guest) Editor

- Special Issue on Methodologies, Technologies and Tools enabling e-Government - International Journal of Electronic Governance (IJEG), Inderscience Publisher, Vol. 8, N. 1, 2016.

## Program (Co-)Chair

- 8th International Conference on Methodologies, Technologies and Tools enabling e-Government, Udine, Italy, 18-19 September 2014

## Program Committees Member

- International Conference on Advanced Technologies Enhancing Education - ICAT2E 2017, Qingdao, China, from March 18 - 20, 2017.

- Collective Adaptive Systems (CAS)' track at ACM SAC 2017, Marrakech, Morocco, April 3-7, 2017

- International Conference on Internet of Things and Cloud Computing - ICC17, Cambridge, United Kingdom, 2017.

- 4th IEEE International Conference on Enterprise Systems - ES2015, Melbourne, Australia 2 - 3 November 2016.

- 5th International Symposium From Data to Models and Back - DataModel16, Vienna, Austria, 8 Luglio 2016, co-located with STAF 2016.

- 25th European Conference on Information System, Guimaraes, Portugal, 5 - 10 June 2017

- 6th International Conference on Social Media Technologies Communication and Informatics - SOTICS 2016, Brussels, Belgium, 21 - 25 August 2016.

- 15th International conference on electronic Government and ePart 2016 (General ePart track and Smart Governance, Smart Government and Smart Cities track), Guimaraes, Portugal, 5 - 8 September 2016.

- International Conference on Internet of Things and Cloud Computing - ICC16, Cambridge, United Kingdom, 22 - 23 March 2016.

- 10th International Conference on Digital Society and eGovernments - ICDS16, Venice, Italy, 24 - 28 April 2016.

- 14th International conference on electronic Government and ePart 2015 (General ePart track and Smart Governance, Smart Government and Smart Cities track), Salonicco, Greece, 30 August - 3 September 2015.

- 3rd IEEE International Conference on Enterprise Systems - ES2015, Basel, Switzerland, 14 - 15 October 2015.

- 5th International Conference on Social Eco-Informatics - SOTICS2015, Barcelona, Spain, 15 - 20 November 2015.

- Electronic Governance and Open Society: Challenges in Eurasia - EGOSE14, St. Petersburg, Russia, 18 - 20 November 2014.

- 9th International Conference on Digital Society - ICDS2015, Lisbon, Portugal, 22 - 27 February 2015.

- 8th International Conference on Theory and Practice of Electronic Governance - ICEGOV2014, Guimaraes, Portugal, 28 - 31 October 2014.

- e-Government Workshop: Strategies, Frameworks, Methodologies and Tools for e-Government Development. CENTERIS/ProjMAN/HCist 2014, Troia, Portugal, 15 - 17 October 2014.

- 4th International Conference on Social Eco-Informatics - SOTICS2014, Nice, France, 12 - 16 October 2014.

- 3nd International Conference on Social Eco-Informatics - SOTICS2013, Lisbon, Portugal, 17 - 22 November 2013.

- 2nd International Symposium on Modelling and Knowledge Management for Sustainable Development - MoKMaSD 2013, Madrid, Spain, 24 September 2013.

- 7th International Conference on Methodologies, Technologies and Tools enabling e-Government, Vigo, Spain, 17 - 18 October 2013

- 2nd International Conference on Social Eco-Informatics - SOTICS2012, Venice, Italy, 21 - 26 October 2012.

- 1st International Symposium on Modelling and Knowledge Management for Sustainable Development - MoKMaSD 2012, Thessaloniki, Greece, 2 October 2012.

- "La Posta Elettronica Certificata: Opportunità e Sfide nell'Internet del Futuro", Pisa, Italy, 8 May 2012.

- 6th International Conference on Methodologies, Technologies and Tools enabling e-Government, Belgrado, Serbia, 3 - 5 July 2012.

- 5th Mediterranean Conference on Information Systems - MCIS 2010, Tel-Aviv-Yaffo Academic College, Tel Aviv, Israel, 12 - 14 September, 2010.

- 4th International Conference on Methodologies, Technologies and Tools enabling e-Government, Olten, Switzerland, 1 - 2 July 2010.

- 3rd International Conference on Methodologies, Technologies and Tools enabling e-Government, Vigo, Spain, 28 - 29 September 2009.

- 2nd International Conference on Methodologies, Technologies and Tools enabling e-Government, Corfu, Greece, 25 - 26 September 2008.

- 2nd European Summit on Interoperability in the iGovernment - ESIIG 2, Roma, Italy, January 2008.

## Organization Committee Member and Chair

- Chair - 5th international conference on Methodologies, Technologies and Tools enabling e-Government - MeTTeG11, Camerino, Italy, 30 June - 1 July 2011.

- ICAR MARCHE "La Regione Marche presenta Soluzioni di Cooperazione Applicativa", Regione Marche and University of Camerino, Camerino, Italy, 15-16 October 2009.

- SAS WIP 2008 - School of Advanced Studies Work in Progress 2008. University of Camerino, 18 April 2008.

- Chair - 1st International Conference on Methodologies, Technologies and Tools enabling e-Government, Camerino, Italy, 27-28 September 2007.

## Referee

- 41th (2008), 42th (2009), 43th (2010) 44th (2011), 45th (2012), 46th (2013), 47th (2014), 48th (2015) 49th (2016), and 50th (2017) Hawaii International Conference on System Sciences - HICSS, E-Government Track.

- 9th (2010), 10th (2011), 11st (2012), 12st (2013), 13st (2014) IFIP Electronic Government conference.

- "Journal of Systems and Software" area editor Antonia Bertolino, 2015.

- "Information Systems Management" journal special issue editor L. Anido e L. Sabucedo, 2013.

- "Software: Practice and Experience" journal special issue editor A. Wellings, February 2011.

- "Handbook of research on overcoming digital divides: Constructing an equitable and competitive information society", Information Science Reference, editor E. Ferro, Y. K. Dwivedi, J. R. Gil-Garcia, M. D. Williams, 2010.

- "Government Information Quarterly" journal special issue guest editor D. Weerakkody e W. Guest, June 2008.

- "Cases on Managing E-services" editor A. Scupola, 2007.

- "E-Services - Journal of Electronic Commerce in Organizations" journal special issue editor A. Scupola, 2007.

## PUBLICATIONS (ALL PEER REVIEWED)

### Journal Articles

**R6** R. Cognini, F. Corradini, S. Gnesi, A. Polini, B. Re. Business Process Flexibility - A Systematic Literature Review with a Software Systems Perspective. Information systems frontiers, first online, Springer, pp. 1 - 29, July 2016.

**R5**  F. Corradini, A. Polini, B. Re. Inter-organizational business process verification in public administration. Business Process Management Journal, Vol. 21, No. 05, pp. 1040 - 1065, September 2015.

**R4**  A. Polini, A. Polzonetti, B. Re. Formal methods to improve public administration business processes. RAIRO - Theoretical Informatics and Applications, Vol. 46, No. 02, pp. 203 - 229, April 2012.

**R3**  F. Corradini, A. Polini, A. Polzonetti, B. Re. Business processes verification for e-gov service delivery. Information Systems Management journal, Vol. 27, No. 4, pp. 293 - 308, September 2010.

**R2**  L. A. Sabucedo, L. A. Rifon, F. Corradini, A. Polzonetti, B. Re. Knowledge-based platform for e-government agents: a web based solution using semantic technologies. Expert Systems with Application, Jay Liebowitz (Editor), Vol. 37, No. 5, pp. 3647 - 3656, May 2010.

**R1**  F. Corradini, A. Polzonetti, B. Re, L. Tesei. Quality of service in e-government underline the role of information usability. International Journal of Information Quality, special issue on Information Quality and Usability, J. R. Wright and G. T. Vesonder (Editors), Vol. 2, No. 2, pp. 133 - 151, 2008.


## Book Chapters

**L4**  R. Cognini, F. Corradini, A. Polini, B. Re. Business Process Feature Model: an approach to deal with variability of business processes. Domain-Specific Conceptual Modelling: Concepts, Methods and Tools. D. Karagiannis, H. C. Mayr, J. Mylopoulos (Editors), Springer, pp. 171 - 194, 2016.

**L5**  A. Pierantonio, R. Woitsch, B. Thonssen, A. Polini, B. Re. Modeling for learning in public administrations. Domain-Specific Conceptual Modelling: Concepts, Methods and Tools. D. Karagiannis, H. C. Mayr, J. Mylopoulos (Editors), Springer, pp. 575 - 594, 2016.

**L2**  L. A. Sabucedo, L. A. Rifon, F. Corradini, A. Polzonetti, B. Re. Semantic-based e-service delivery for e-government domain. Semantic Web. Gang Wu (Editor) In-Tech Inc., pp. 241 - 256, January 2010. ISBN 978-953-7619-54-1

**L1**  F. Corradini, A. Polzonetti, B. Re. Assessing quality of digital Services in e-Government: a case study in Italian region. Cases on Managing E-Services. Ada Scupola (Editor). Idea Group Inc., pp. 28 - 47, 2008.


## International Refereed Conferences and Workshops Papers

**C43**  A. Bettacchi, A. Polzonetti, B. Re. Understanding Production Chain Business Process Using Process Mining: A Case Study in the Manufacturing Scenario. J. Krogstie et al. (Eds.): Workshop on Enterprise Modeling at CAiSE 2016, Ljubljana, Slovenia, LNBIP 249, pp. 1 - 11, 13 - 17 June, 2016.

**C42**  F. Corradini, A. Polini, B. Re, F. Tiezzi. An Operational Semantics of BPMN Collaboration. 12th International Symposium Formal Aspects of Component Software, FACS15, Niteroi, Rio de Janeiro, Brazil, pp. 161 - 180, 14 - 16 October, 2015.

**C41**  R. Cognini, F. Corradini, A. Polini, B. Re. Process Variability Modeling for Complex Organizations. 3rd International Conference on Enterprise Systems, ES2015, Basel, Switzerland, pp. 9 - 20, 14 - 15 October, 2015.

**C40** R. Cognini, F. Corradini, F. Fornari, A. Polini, B. Re. A Data Oriented Approach to Derive Public Administration Business Processes. Electronic Government and Electronic Participation, Greece, Salonicco, pp. 201 - 208, 31 August - 2 September, 2015.

**C39** R. Cognini, F. Corradini, A. Polini, B. Re. Extending Feature Models to Express Variability in Business Process Models. CAiSE Workshop on Enterprise Modeling, Stockholm, Sweden, pp. 245 - 256, 8 - 9 June, 2015.

**C38** F. Corradini, F. De Angelis, B. Re, E. Anceschi, M. Callisto De Donato, P. Iddas. An Integration Platform for Private Assisted Houses. 1st International Conference on Information and Communication Technologies for Ageing Well and e-Health, Lisbon, Portugal, pp. 45 - 52, 20 - 22 May, 2015.

**C37** R. Cognini, F. Corradini, A. Polini, B. Re. Using data-object flow relations to derive control flow variants in configurable business processes. Business Process Management Workshops, Eindhoven, The Netherlands, pp. 210 - 221, 7 - 8 September, 2014.

**C36** R. Cognini, F. Corradini, A. Polini, B. Re. Modelling Process Intensive Scenarios for the Smart City. 13th IFIP WG 8.5 International Conference Electronic Government, EGOV 2014, Volume 8653, LNCS, pp. 147 - 158, Dublin, Ireland, 1 - 3 September, 2014.

**C35** R. Cognini, F. Corradini, S. Gnesi, A. Polini and B. Re. Research challenges in Business Process Adaptability. 29th ACM Symposium on Applied Computing, Track on Software Architecture: Theory, Technology, and Applications, SATTA-SAC 2014, Gyeongju, Korea, pp. 1049 - 1054, 24 - 28 March, 2014.

**C34** L. Rossi, A. Belli, A. De Santis, C. Diamantini, E. Frontoni, E. Gambi, L. Palma, L. Pernini, P. Pierleoni, D. Potena, L. Raffaeli, S. Spinsante, P. Zingaretti, D. Cacciagrano, F. Corradini, R. Culmone, F. De Angelis, B. Re, and E. Merelli. Interoperability Issues Among Smart Home Technological Frameworks. 10th IEEE International Conference on Mechatronic and Embedded Systems and Applications, MESA14, Senigallia, Italy, pp. 1 - 7, 10 - 12 September, 2014.

**C33** D. Spiga, G. M. Bilei, H. Riahi, L. Storchi, E. Fattibene, M. Manzali, D. Salomoni, V. Venturi, P. Veronesi, C. Diamantini, D. Potena, L. Raffaeli, G. Ribighini, E. Storti, L. Fanò, A. Valentini, D. Falcioni, D. Fanà, B. Re, C. Amici, S. Carota, F. Cirillo, M. L. Maggiulli, A. Sergiacomi, D. Settimi. A Cloud-based solution for Public Administrations. The experience of the Regione Marche. 2014 International IEEE Conference on Collaboration Technologies and Systems, Minnesota, MN, USA, pp. 493 - 499, 19 - 23 May, 2014.

**C32** R. Cognini, D. Falcioni, A. Polzonetti, B. Re. EGOV: A solution for public services execution. 1st International Conference on eDemocracy & eGovernment, ICEDEG, pp. 59 - 64, April 2014.

**C31** D. Falcioni, F. Ippoliti, F. Marcantoni and B. Re: Digital Identity into Practice: The Case of UniCam. EGOVIS/EDEM, Prague, Czech Republic, pp. 18 - 28, 26 - 28 August, 2013.

**C30** R. Cognini, D. Falcioni, A. Polini, A. Polzonetti and B. Re: HawkEye: a tool for collaborative business process modelling and verification. Proceedings of the 28th Annual ACM Symposium on Applied Computing, SAC13, Coimbra, Portugal, pp. 785 - 786, 18 - 22 March, 2013.

**C29** D. Falcioni, A. Polini, A. Polzonetti and B. Re. Direct verification of BPMN processes through an optimized unfolding technique. 12th International Conference on Quality Software, QSIC2012, in Xi'an, China, pp. 179-188, 27 - 29 August 2012.

**C28** S. Carota, F. Corradini, D. Falcioni, M. L. Maggiulli, F. Marcantoni, R. Piangerelli, A. Polzonetti, B. Re, A. Sergiacomi. FedCohesion: Federated Identity Management in the Marche Region. EGOVIS-EDEM 2012, LNCS, Vol. 7452, Vienna, Austria, pp. 112 - 124, 3 - 7 September 2012.

**C27** D. Falcioni, A. Polini, A. Polzonetti and B. Re. Livelock and Deadlock Detection for PA Inter-organizational Business Processes. EGOVIS-EDEM 2012, LNCS, Vol. 7452, pp. 125 - 139, Vienna, Austria, 3 - 7 September, 2012.

**C26** D. Falcioni, A. Polini, A. Polzonetti and B. Re. Improving PA Business Processes through Modeling, Analysis, and Re-engineering. IFIP EGOV 2012 conference, LNCS, Vol. 7443, Kristiansand, Norway, pp. 78 - 89, 3 - 6 September, 2012.

**C25** F. Corradini, R. Gagliardi, A. Polzonetti, B. Re, and A. Silvi. Lessons learned from a participatory design project in e-health. 6th International Conference on Methodologies, Technologies and Tools enabling e-Government, Belgrade, Serbia, 3-5 July 2012; ISBN 978-86-7892-413-2.

**C24** R. Cognini, D. Falcioni, A. Polini, A. Polzonetti, B. Re. An Eclipse plug-in for Public Administration software system modelling and simulation. 6th Workshop of the Italian Eclipse Community, Eclipse IT 2011, Milano, Italy, pp. 266 - 277, September 2011.

**C23** F. Corradini, D. Falcioni, A. Polini, A. Polzonetti, B. Re. eGAML: A Domain Specific Language for Design and Verification of e-Government Digital Services. IFIP EGOV 2011 conference Proceeding of Ongoing Research or Projects Papers for Trauner Druck, Delft, The Netherlands, pp. 249 - 256, September 2011. ISBN 978-3-85499-515-9

**C22** F. Corradini, A. Polini, A. Polzonetti, B. Re, S. Carota and D. Arduini. Monitoring Cases of Applicative Cooperation In Italian Local Public Administrations Focusing on the Process. 5th international conference on Methodologies, Technologies and Tool enabling e-Government, MeT-TeG11, Camerino, Italy, pp. 363 - 379, July 2011.

**C21** F. Corradini, S. Carota, B. Re. The Role of Applicative Cooperation in the Marche Region Enterprise Architecture. International Information Management Corporation eChallenges, pp. 1 - 8, 2011. ISBN: 978-1-905824-20-5.

**C20** F. Corradini, A. Polini, A. Polzonetti, B. Re. An User friendly Approach for Business Process Formal Verification. 12th Italian Conference on Theoretical Computer Science, ICTCS 2010, Camerino, Italy, 15 - 17 September, 2010.

**C18** F. Corradini, D. Falcioni, A. Polini, A. Polzonetti, B. Re. Designing Quality Business Processes for e-Government Digital Services. IFIP EGOV 2010 conference, LNCS of Springer, Lausanne, Switzerland, pp 424 - 435, September 2010. ISBN 978-3-642-14798-2

**C17** F. Corradini, D. Falcioni, A. Polini, A. Polzonetti, B. Re. Improving e-Government Business Processes Applying Formal Verification. 4th international conference on Methodologies, Technologies and Tool enabling e-Government, MeTTeG10, Olten, Switzerland, pp. 33 - 44, July 2010. ISBN 978-3-906129-59-4

**C16** F. Corradini, D. Falcioni, A. Polzonetti, B. Re. An ECLIPSE Plug-in for Formal Verification of BPMN Processes. 3rd International Conference on Communication Theory Reliability and Quality of Service, CTRQ 2010, Athens/Glyfada, Greece, pp. 144 - 149, 13 - 19 June, 2010.

**C15** F. Corradini, A. Polini, A. Polzonetti, B. Re. Formal Methods To Assess And Improve Public Administration Service Delivery Processes. 3rd international conference on Methodologies, Technologies and Tool enabling e-Government, MeTTeG09, Vigo, Spain, pp. 51 - 62 September 2009.

**C14** F. Corradini, K. Hinkelmann, A. Polini, A. Polzonetti, B. Re. C2ST: A Quality Framework to Evaluate e-Government Service Delivery. 8th International Conference EGOV 2009, Proceedings of ongoing research, project contributions and workshops, Linz, Austria, pp. 74 - 84, 30 August - 3 September, 2009.

**C13** H. J. (Jochen) Scholl, K. Barzilai-Nahon, J. H. Ahn, O. H. Popova, and B. Re. E-Commerce

and e-Government: How Do They Compare? What Can They Learn From Each Other? 42nd Hawaiian International Conference on System Sciences, HICSS-42, Big Island, Hawaii, pp. 1 - 10, January 2009.

**C12** Barbara Re. E-government quality of service: the role of citizens. 2nd international conference on Methodologies, Technologies and Tool enabling e-Government, MeTTeG08, Corfu, Greece, pp. 69 - 77, September 2008.

**C11** F. Corradini, A. Polzonetti, B. Re. The Meaning and the Role of Adaptability in e-Government. 7th International Conference Electronic Government Proceedings of ongoing research, project contributions and workshops, EGOV 2008, Turin, Italy, pp. 70 - 77, 1 - 4 September 2008.

**C10** F. Corradini, F. De Angelis, F. Paoloni, A. Polzonetti, B. Re. A case study of a semantic search engine for G2G collaboration based on intelligent document. 4th International Conference on e-Government, RMIT University Melbourne, Australia, pp. 499 - 506, October 2008.

**C9** Barbara Re. Run Time Quality Assessment of e-Government Services. 1st international conference on Methodologies, Technologies and Tool enabling e-Government, MeTTeG07, Camerino, Italy, pp. 213 - 228, September 2007.

**C8** F. Corradini, L. A. Sabucedo, A. Polzonetti, L. A. Rifòn, B. Re. A case study of semantic solutions for citizen-centered Web portals in eGovernment: the Tecut Portal. 6th International EGOV Conference 2007, DEXA, Regensburg, Germany, pp. 204 - 215, LNCS of Springer, September 2007.

**C7** F. Corradini, F. Marcantoni, A. Polzonetti, B. Re. A Formal Model for Quality of Service Measurement in e-Government. 29th International Conference Information Technology Interfaces, ITI 2007, Cavtat, pp. 747 - 752, 25 - 28 June 2007.

**C6** F. Corradini, C. Ercoli, L. Forastieri, A. Polzonetti, B. Re. e-Government digital services for specific geographic area: Regione Marche. Mediterranean Conference on Information Systems, MCIS06, San Sevolo, Venice, Italy, pp. 62 - 70, October 2006.

**C5** F. Corradini, F. De Angelis, A. Polzonetti, B. Re. Quality model for digital e-Government services. 2nd International Conference in e-Goverment, ICEG 2006, Pittsburgh, pp. 42 - 51, October 2006.

**C4** F. Corradini, F. De Angelis, A. Polzonetti, B. Re, E. Brugnoni. e-GovQoS: an Ontology for Quality of e-Government Services. 5th International EGOV Conference, Krakow, pp. 171 - 178, September 2006.

**C3** F. Corradini, F. De Angelis, A. Polzonetti, B. Re. Quality Evaluation of eGovernment Digital Services. International conference on Digital government research ACM International Conference Proceeding Series, Vol. 151, San Diego, California, USA, pp. 377 - 378, 21 - 24 May, 2006.

**C2** F. Corradini, C. Ercoli, A. Polzonetti and B. Re. A case study of partecipatory design in e-government system: e-services and e-ID. IADIS International Conference, Lisbona, Vol. 1, pp. 151 - 158, October 2005.

**C1** F. Corradini, C. Ercoli, E. Merelli and B. Re. A Matchmaker for BioMOBY (A quality model for biological services discovery). NETTAB Workshop on Models and Metaphors from Biology to Bioinformatics Tools, pp. 183 - 184, September 2004.

## National Refereed Conferences and Workshops Paper (in Italian)

**Cn4** S. Carota, D. Falcioni, M. L. Maggiulli, F. Marcantoni, R. Piangiarelli, A. Polzonetti, Barbara Re, A. Sergiacomi. Cohesion 2.0: l'esperienza della Regione Marche. GARR Conference 2011 - Into the future since 20 years, Poster Section, Bologna, Novembre 2011.

**Cn3** F. Corradini, F. De Angelis, A. Polzonetti, B. Re. Interoperabilità e cooperazione nell'e-Government: il ruolo dei metadati. AICA 2007, Milano, pp. 21 - 29, Settembre 2007.

**Cn2** F. Corradini, F. De Angelis, C. Ercoli, A. Polzonetti, B. Re. Infrastruttura per il miglioramento dei servizi di e-Government: considerazioni e linee di sviluppo. AICA, Udine, pp. 71 - 74, Settembre 2005.

**Cn1** F. Corradini, C. Ercoli, E. Merelli, B. Re. An agent-based matchmaker (A case study in biological services discovery). WOA04, Sistemi complessi e agenti razionali, Torino, pp. 150 - 156, Novembre 2004.

## Other Pubblications

**V3** Monitoraggio di progetti e casi di interoperabilità e cooperazione applicativa sviluppati a livello locale attraverso un approccio metodologico orientato al processo. Osservatorio ICAR Plus. Dicembre 2010.

**V2** S. Carota, M. L. Maggiulli, D. Arduini, B. Re. Dossier Regionale 2010 Regione Marche. Osservatorio ICAR PLUS sulla interoperabilità e la cooperazione applicativa Regione Marche. Giugno 2010.

**V1** Il portale dei servizi al cittadino ed alle imprese del progetto TECUT (TECnologia UTile). F. Corradini, F. De Angelis, C. Ercoli, S. Nepi, A. Polzonetti, B. Re, O. Riganelli, I. Vagnoni, A. Vallorani, G. Vitali. Collana "Tecnologia e Innovazione" a cura di F. Corradini e A. Polzonetti, Halley editrice, 2005.

## Invited Speaker

**PC2** Quality of (digital) e-Government Service. European eGovernment Measurements Conference, eGovMoNet Final Conference, Brussels, Belgium, 8 - 9 April 2010.

**PC1** A case study to face intelligent document management and semantic interoperability in Regione Marche. 1st European Summit on Interoperability in the i-Government, ESIIG06, Valencia, Spain, 22 - 24 November 2006.

## AWARDS

- "Inter-organizational business process verification in public administration" journal paper was the Highly Commended Paper from Emerald Literati Network Awards for Excellence.

## SOFTWARE

The research activities has led to the development of the following software tools.

- Learn PAd Modeling Environment (Model-Based Social Learning for Public Administrations, http://austria.omilab.org/psm/content/learnpad/info). It is a modeling environment supporting a collection of model types for business process oriented learning, individual training, business process support and reflection, process optimization and organizational evolution. It supports also quality checks in terms of model understandability.

- BPFM (Business Process Feature Model, http://austria.omilab.org/psm/content/bpfm/info). BPFM provides an environment to model using the BPFM notation Business Process Families. Starting from a BPFM model the tool supports also an automatic derivation of Business Processes modeled in BPMN 2.0. The notation and the approach have been implemented within the the ADOxx platform.

- BProve (Business Process Verification, http://bprove.sourceforge.net/index.html). BProve is a fully integrated and user friendly environment that supports the specification of Business Processes and the verification of properties related to defined collaborations. It results as an Eclipse plug-in. It integrates third party Eclipse extensions such as the BPMN editor, it uses the direct BPMN formalization we implemented in MAUDE and exploits the LTL model checker of MAUDE.

- BP4PA (Business Process for Public Administration, http://bp4pa.sourceforge.net). BP4PA is a fully integrated and user friendly environment that supports the specification of Business Processes and the verification of properties related to Public Administration domain such as coordination, control, transparency, and inclusion. It results as an Eclipse plug-in. It is integrated with third party Eclipse extensions such as the BPMN editor, it supports the mapping from BPMN to CSP and it exploits the PAT model checker verification capabilities.

## TEACHING ACTIVITIES

### Summer School

- Invited teacher at the 3rd edition of NEMO Summer School Series (http://nemo.omilab.org) - Next Generation Enterprise Modelling in the Age of Internet of Things, University of Vienna, Vienna, Austria, 19 - 29 Luglio 2016.
  Title of the Seminar: "Modeling Variability for Business Processes".

### University of Camerino (In English)

- "Business Process Management and Flexibility" (6 ECTS credits), MSc in Computer Science, a.y. 2015-16.

- "Alignment of Business and IT" (3 ECTS credits), MSc in Computer Science, a.y. 2015-16.

- "Advanced Business Process Management" (6 ECTS credits), MSc in Computer Science, a.y. 2014-15.

- "Advanced Topics in Business Intelligence" (6 ECTS credits), MSc in Computer Science, a.y. 2013-14.

- "Advanced Topics in Business Intelligence" (6 ECTS credits), MSc in Computer Science, a.y. 2012-13.

- "Service-Oriented Architecture" (6 ECTS credits), MSc in Computer Science, a.y. 2011-12.

- "Service Oriented Architecture (Project SOA)" (6 ECTS credits), MSc in Computer Science, a.y. 2009-10.

- "Technologies for digital innovation (Semantic technologies and e-service)" (3 ECTS credits), MSc in Computer Science, a.y. 2008-09.

### University of Camerino (In Italian)

- "Fondamenti di Informatica" (6 ECTS credits), BSc in Computer Science, a.y. 2015-16.

- "Fondamenti di Informatica" (6 ECTS credits), BSc in Computer Science, a.y. 2014-15.

- "Informatica I" (6 ECTS credits), BSc in Mathematics, a.y. 2010-11.

### University of Macerata (in Italian)

- "Informatica" (6 ECTS credits), BSc in "Economia e Commercio Internazionale", a.y. 2013-14.

- "Analisi e Gestione delle Banche dati" (6 ECTS credits), MSc in "Scienze economico-aziendali", a.y. 2012-13.

- "Analisi e Gestione delle Banche dati" (6 ECTS credits), MSc in "Scienze economico-aziendali", a.y. 2011-12.

- "Analisi e Gestione delle Banche dati" (6 ECTS credits), MSc in "Scienze economico-aziendali", a.y. 2010-11.

- "Laboratorio di comunicazione multimediale applicata al turismo" (3 ECTS credits), BSc in "Formazione e management dei sistemi turistici", a.y. 2008-09.

- "Laboratorio informatico per la gestione dei database turistici" (6 ECTS credits), BSc in "Formazione e management dei sistemi turistici", a.y. 2007-08.

- "Laboratorio informatico per la gestione dei database turistici" (6 ECTS credits), BSc in "Formazione e management dei sistemi turistici", a.y. 2006-07.

## PROFESSIONAL EXPERIENCES

**University of Camerino, April 2011 - December 2013**
Postdoctoral research assistant, project title "An automatic and systematic approach toward Informative Systems development and services delivery improvement in Public Administrations".

**Between S.p.A., October 2011**
Occasional professional services related to the design of regional interoperability framework in the scope of electronic health records.

**e-Lios S.r.l., January 2010 - June 2011**
Project Manager with the responsibility of successful planning and execution of MARIUS project.

**University of Camerino, March 2010 - March 2011**
Postdoctoral research assistant, project title "Theories and Technical Framework for the Verification of e-Government Digital Service Qualities".

**University of Camerino, November 2005 - July 2006**
Scholarship, project title "Analisi comparativa dei Tool per l'analisi sintattica e semantica e la traduzione automatica da linguaggo a linguaggio".

**University of Camerino, December 2004 - June 2005**
Term contract to design and develop e-government services in the TECUT project.

## EXPERT AND EVALUATOR

- European Commission DG RTD & CNECT - call H2020-INSO-2015-CNECT.
- Regione Emilia Romagna - DGR 773/2015.

## TECHNOLOGY TRANSFER

I was one of the founding members of e-Lios Srl UniCam spin-off (http://www.e-lios.eu/) founded in 2007, currently I am one of the member of the management board.

Autorizzo il trattamento dei miei dati personali ai sensi del Dlgs 196 del 30 giugno 2003.

Macerata, 22 July 2016

Dott.ssa Barbara Re