

CURRICULUM VITAE

(May, 2014)

Name and Surname: Federica Paganelli
Birthdate: February 16, 1974
Birth Place: Montecatini Terme (PT)
Address: via Oriani 10, 50134, Firenze (FI), Italy
Family status: unmarried
Nationality: Italian
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EDUCATION

1993 **High School Diploma** in scientific studies (Maturità Scientifica). “Coluccio Salutati” Institute, Montecatini Terme (PT), Italy.
Final Mark: **60/60**

2000 Università degli Studi di Firenze: **5-years Laurea Degree** (M. Eng) in Telecommunications Engineering
Thesis: " Tecniche di Ottimizzazione applicate al Progetto di Horn Circolari Corrugati"
Tutors: Prof. Giuseppe Pelosi, Prof. Guido Biffi Gentili
Final mark: **110/110 cum Laude**

2000 **Habilitation to the engineering profession**, Università degli Studi di Firenze.

2004 **Research Doctorate Degree** in “Telematics and Information Society”, Università degli Studi di Firenze
Thesis: “A Metadata Model for Unstructured Document Management in Organizations”
Tutors: Prof. Franco Pirri, Prof. Omar Abou Khaled, Dr. Maria Chiara Pettenati

CURRENT POSITION

2009- ongoing **Senior Researcher** at the National Inter-university Consortium for Telecommunications (Consorzio Nazionale Interuniversitario per le Telecomunicazioni, CNIT www.cnit.it), since January 2009.

RESEARCH INTERESTS

Service oriented and computing and networking;
Network-enabled cloud and network service chaining;
Context-awareness and Pervasive Computing;
Web, REST and SIP-based services;
Convergence of Web and real-time communication Services.

PAST RESEARCH AND PROFESSIONAL EXPERIENCE

2005- 2008 **Researcher** at the National Inter-university Consortium for Telecommunications (Consorzio Nazionale Interuniversitario per le Telecomunicazioni, CNIT).
Activities: research activity, project management and technical reports writing; research, design and prototype development.
Research topics: service-oriented architectural models, Context-aware systems, Ambient Intelligence.
Contract duration: February 2005 - February 2007, March 2007- August 2007, September 2007 – September 2008.

2004- 2005 **PostDoc Fellowship** on the topic “Service-oriented Systems for Application-level interoperability”, at the Dept. of Electronics and Telecommunications, Università degli Studi di Firenze, June 2004- January 2005
Research topics: Service-oriented Architecture, Web Services, eGovernment.

2000-2001 **System Engineer** at OTE SpA (now Selex Communications), Firenze, Italy, September 2000 - June 2001.
Activities: requirements definition, design, integration and testing of TETRA (Terrestrial TRunked RAdiomobile) radiomobile networks.

STAYS ABROAD

- 2003 Visiting PhD student at the University of Applied Sciences of Fribourg, Switzerland (with grant), January-December 2003.
Tutor: Prof. Omar Abou Khaled.
- 1998 Visiting student at the Rheinische Westfalische Technische Hochschule – Aachen (Germany), in the framework of the Erasmus Exchange program (with grant), March-August 1998

TEACHING ACTIVITY

Academic courses

- 2013-2014 and
2012-2013 Lecturer in "Elements of Telematics" ("Elementi di Telematica"), 81 hours, first level Degree in Electronics and Telecommunications Engineering, and "Fundamentals of Telematics", 54 hours, first level Degree in Computer Engineering, Università degli Studi di Firenze.
Topics: layered architectures; Uniform Resource Identifier (URI), application protocols (FTP, HTTP, SMTP), DNS; UDP and TCP protocols; IP and ARP protocols; REST architectural style; SIP protocol and SIP Servlet programming model.
- 2010-2011 Lecturer in "Telematics Services and Systems" ("Servizi e Sistemi Telematici"), 18 hours, first level Degree in Electronics and Telecommunications Engineering, Università degli Studi di Firenze.
Topics: Distributed systems, Middleware basics, Web Services, Service Oriented Architecture, XML, XML Schema, SOAP, WSDL.
- 2009-2010 Lecturer in "Management of Telematics Services" (Gestione dei Servizi Telematici), 30 hours, first level Degree in Computer Engineering, Università degli Studi di Firenze.

Topics: Middleware basics, Web Services, Service Oriented Architecture, XML, XML Schema, SOAP, WSDL, Axis2 and JAX-WS.

2007-2008 Lecturer in "Management of Telematics Services" (Gestione dei Servizi Telematici), 50 hours, first level Degree in Computer Engineering, Università degli Studi di Firenze.

Topics: Distributed systems, Middleware basics, Web Services, Service Oriented Architecture, XML, XML Schema, SOAP, WSDL, BPEL, Axis2 and JAX-WS.

2006-2007 Lecturer in "Telematics" ("Fondamenti di Telematica"), 30 hours, first level Degree in Electrical Engineering, Università degli Studi di Firenze.

Topics: ISO/OSI model; TCP/IP protocol stack; HTTP and HTML; distributed systems.

Seminars for under-graduate and graduate students

2005-2013 Seminars within the "Telematics Systems" course (Prof. Dino Giuli), second level Degree in Telecommunications Engineering, Università degli Studi di Firenze.

Topics: Web Services; Service-oriented Architectures; Ambient Intelligence Systems; info-mobility and telemedicine context-aware applications; Next Generation Networks.

Academic Years: 2005/2006, 2006/2007, 2007/2008, 2008/2009, 2009/2010, 2010/2011, 2011/2012, 2012/2013.

2006-2007 Seminar within the "Multimedia and Interaction Design" ("Progettazione Multimediale e Progettazione dell'Interazione") course (Lecturer: D.ssa Elisa Rubegni), Literature and Philosophy Faculty at the University of Siena

Topics: Ambient Intelligence. Date: June 7, 2007.

2004-2005 Seminar within the "Telematics" ("Telematica") course (Prof. Franco Pirri), third year of the Degree in Telecommunications and Computer Engineering, Università degli Studi di Firenze.

Topics: Web Services and REST (Representational State Transfer) architectural style for distributed applications. Date: June 8, 2004.

- 2003-2004 Seminar within the “Telematics Laboratory” (“Laboratorio di Telematica”) course, first level Degree in Computer Engineering (Prof. Franco Pirri), Università degli Studi di Firenze.
Topics: distributed web applications, XML and Web Services. Date: June 07, 2005
- 2003-2005 Seminar “Overview of XML technologies”, PhD course in “Telematica e Società dell’Informazione”, Università degli Studi di Firenze
Dates: February 23, 2004 and April 11, 2005.
- 2003 Seminar “XML and business standards”, within the “Information Systems” course (Prof. Omar Abou Khaled). Computer Science, University of Applied Sciences of Fribourg (Switzerland). Date: July 2003.

Advisorship and Examination Activity

- Since 2004 Advisor of several students working on undergraduate and Laurea Degree projects in computer science, telecommunications engineering and electronic engineering, Università degli Studi di Firenze.
- L. Mazzi, "API REST per Web-based communication services and interoperability with SIP protocol", Laurea Degree in Computer Engineering, 2013.
 - D. Benvenuti, "Design of a data-centric security architecture for a collaborative web of data, Laurea Degree in Computer Engineering, 2013.
 - A. Guida, "Design and development of an Android application for the Web of Things in a Smart City scenario”, 3-year Laurea Degree in Computer Engineering, 2013.
 - I. Zappia, "LiSEP: design and development of a stage-based system for Complex Event Processing", Laurea Degree in Computer Engineering, 2010.
 - T. Ambra, " Optimization algorithms for QoS-aware service composition", Laurea Degree in Telecommunications Engineering, 2011.
 - G. Stefanacci, "Design of a discovery service based on P2P networks towards the Internet of Things", Laurea Degree in Telecommunications Engineering, 2011.
 - L. Ananfack Foko, "Active RFID for dangerous goods monitoring", Laurea Degree in Telecommunications Engineering, 2010.
 - S. Cigheri, "Service-oriented Middleware: case study of a system for maritime surveillance", Laurea Degree in Computer Engineering, 2009.

- N. Francini, "Design and development of a mobile application for tourism services", Laurea Degree in Computer Engineering, 2008.
- G. Di Ninni, "Design of a multiprotocol Active RFID Studio for Intelligent Transport Systems", Laurea Degree in Electronic Engineering, 2008.
- A. Marsiglietti, "Design and development of a graphical interface for a metadata-based approach for document management", Laurea Degree in Telecommunications Engineering, 2004.
- S. Gerardi, "Approccio basato sui metadati per il progetto e sviluppo di un web-based document management system", Laurea Degree in Telecommunications Engineering, 2004.

Tutor of undergraduate students for projects within the course of Telematic Systems, since 2005. More than 60 student projects on: Ambient Intelligence; Web Services, homecare applications, goods monitoring; SIP-based systems; Web of Data; Sensor API on Android and J2ME platforms.

Since 2006

Co-advisor of PhD students at the Dept. of Electronics and Telecommunications, Università degli Studi di Firenze:

- Matteo Bandinelli, 2005-2008, "*Context-aware Security in Next Generation Networks*".
- Ernesto Iadanza, 2010-2012, "*Sistema integrato per la riduzione del rischio clinico nel percorso diagnostico-terapeutico dei pazienti ospedalieri*"
- Riccardo Billero, 2010-2012, "*Architettura di riferimento e modelli semantici per sistemi di gestione di documenti strutturati distribuiti in rete*"
- Stefano Turchi, 2011 – ongoing. Topics: Web of Data, Smart City, REST service composition.
- Terence Ambra, 2012 – ongoing. Topics: SIP protocol, SOA, convergence of Web and Telecom services.
- Ivan Zappia, 2012 – ongoing. Topics: models and techniques for the automated generation of multi-modal and context-aware web applications
- Francesca Paradiso, 2013 - ongoing. Topics: Smart Grid, Home energy management systems, Machine-to-Machine Communication.

Since 2006

Member of the examination committee of the course in "Telematica e Sistemi Telematici", second level Degree in Telecommunications Engineering and Computer Engineering, Università degli Studi di Firenze.

Since 2008 Member of the examination committee of the second level Degree in Computer Engineering and Telecommunications Engineering, Università degli Studi di Firenze.

AWARDS AND QUALIFICATIONS

2001-2004 3-year PhD scholarship in “Telematica e Società dell’Informazione” awarded by the Dept. of Electronics and Telecommunications, University of Firenze.

2004 1-year PostDoc Fellowship on the research topic “Service-oriented Systems for Application-level interoperability”, awarded by the Dept. of Electronics and Telecommunications at the University of Firenze.

2013 Selection as new beneficiary in the 2nd open competitive call of the SmartSantander EU Project (<http://www.smartsantander.eu/>) with the experiment “Information-centric approach for Web of Sensors Applications”. Role: Principal Investigator

2013 Qualification by the French Ministry of Research and Education as Maître de Conférences (assistant/associate professor), disciplinary section 61 Genie informatique, automatique et traitement de signal, qualification no. 13261211844, since 31/01/2013

RESEARCH PROJECTS (with FUNDING)

2013- ongoing SMARTSANTANDER EU FP7 IP Project (GA no. 257992). Role: CNIT Principal Investigator. Topic: Web of Things framework for applications in Smart City scenarios.

2012-2013 Research contract “Distributed sensor data processing engine” funded by Telecom Italia. Topic: algorithms for distributed data processing of energy consumption data in an OSGi-based Home Energy Management Gateway. Role: CNIT Principal Investigator.

2008-2011 SIMOB (Integrated System for Infomobility - Sistema Integrato per l'Infomobilità). Research Project funded by Regione Toscana and coordinated by CNIT (2008-2011). Topics: adoption of System of Systems (SoS) principles in modeling Intelligent Transport Systems and innovation processes; analysis of standard

protocols for message exchange in the Infomobility domain.

Role: task coordinator

2010-2012

Research contract with Elsag Datamat within the SLIMPORT (Sicurezza, Logistica, Intermodalità Portuale) Research Project funded by the Italian Minister for Economic Development. Partners: Elsag Datamat (coordinator), Telespazio, ENEA, Bombardier Transportation Italy, SELEX Communications, CNIT (sub-contractor).

Role: investigator.

Topics: study of service-oriented and event-driven models and complex event processing techniques in sense-and-respond applications for logistics and goods monitoring.

2010-2012

Research contract with ElsagDatamat within the SIRIS Project (Servizi di infomobilità per l'ottimizzazione e il tracciamento della raccolta e trasporto di rifiuti speciali - Waste monitoring system, based on the use of mobile, RFID and sensing technologies), Research Project funded by Regione Toscana. Partners: Elsag Datamat, AME, PHYSIS, CNIT (sub-contractor).

Topics: requirement analysis, design of a waste monitoring system based on the integration of data from RFID and sensing nodes.

Role: CNIT Principal Investigator

2009-2012

Research contract with AME within SITMAR (Sistema Integrato per il Trasporto MARittimo), a Research Project funded by the Italian Ministry for Economic Development (2009-ongoing). Partner: Selex SI, T.R.S, Negentis, AME, CNIT (sub-contractor).

Topics: requirements analysis and design of a Dangerous Goods Monitoring system, based on a service-oriented middleware; interfaces for data acquisition from RFID and Wireless Sensor Networks; techniques for sensor and RFID data filtering and fusion.

Role: CNIT Principal Investigator.

2007-2012

ASINFO (Service Architecture for Infomobility - Architetture di sistema e Servizi Integrati per l'INFOMobilità). Applied Research Project funded by Italian Government (2007-ongoing). Partners: ElsagDatamat, Selex-Communications, TXT eSolutions, AME, La Traccia, and CNIT (sub-contractor).

Topics: design and development of a service brokering framework for e-tourism

service delivery.

Role: investigator

- 2008-2010 GEMOM (Genetic Message Oriented Secure Middleware) FP7 European Research Project (2008-2010). Partners: CNIT (coordinator), Q-Sphere, Norwegian Computing Center, VTT, Datel, TXT, HP, Queen Mary University of London, JRC, Diginus
Topics: analysis, design and test of the GEMOM middleware in a case study for toll data collection and exchange in a highway operator's network.
Role: investigator
- 2005-2007 KAMER (Knowledge Management in Ambient Intelligence) Research Project, funded by Regione Emilia Romagna (2005-2007). Partners: CNIT, HP Italy, Universita' Cattolica.
Topics: design and development of a Context Management Framework, based on Web Services and Semantic Web technologies. Development of two case studies: a mobile tourism guide; home-based monitoring assistance to chronic patients.
Role: investigator.
- 2006-2007 Research contract with ElsasDatamat within INFOTER (Interoperability and orchestration of location-based information services for mobility of persons), a Research Project funded by Regione Toscana (2006-2007). Partners: Elsas Datamat, CNIT (subcontractor).
Topics: CNIT team coordination in the analysis of standard specifications for traffic message exchange.
Role: investigator
- 2008-2009 Research contract within the PAAS-Telep@b e-democracy Project, funded by Regione Toscana. Partners: 36 Tuscany municipalities, CNIT (under sub-contract).
Topics: requirements analysis and design of the e-Participation Web Portal.
Role: CNIT principal investigator for the sub-contract with the Project Coordinator; member of the Project Scientific Committee.
- 2007-2008 Telep@b (Electronic Technologies for Participation in Municipal Budgetary Process) e-government national project (2007-2008).
Topics: Requirements analysis and design of the e-Participation portal.
Role: investigator.

EDITORIAL ACTIVITY

Member of the Editorial Board

Since June 2009 Journal of Convergence Information Technology (AICIT)
Since January 2012 International Journal On Advances in Internet Technology (IARIA)

Reviewer for scientific journals

12/2013 IEEE Internet of Things Journal
07/2013 Methods of Information in Medicine
02/2013 Journal of Engineering
10/2012 Security and Communication Networks, Wiley.
09/2012 IEEE Systems Journal.
09/2012 Artificial Intelligence in Medicine, Elsevier.
01/2012 ICST Transactions on Ambient Systems.
11/2011 Software Quality Journal, Springer.
09/2011 Electronic Commerce Research and Applications, Elsevier.
09/2010 BMC Health Services Research, BioMed Central.
11/2010 Sensors, MDPI.
12/2008 Cybernetics and System Journal, Taylor & Francis

PROFESSIONAL ACTIVITIES

Since 2013 **Member of the IEEE P1903 Next Generation Service Overlay Networks (NGSON) Working Group (WG).** Technical editor for the P1903.2 Standard for Service Composition Protocols.

Since February 2014 **Member of IEEE Internet of Things (IoT) Emerging Technical subcommittee**

Since February 2014 **Member of IEEE Software Defined Networking & Network Function Virtualization Emerging Technical subcommittee**

- 2009 – ongoing **Invited Reviewer** for the IWT, the Flemish government agency for Innovation by Science and Technology, since 2009. Activities: participation in the written scientific evaluation procedure of project proposals in the eHealth area
- 2012 **Invited Reviewer** for Knowledge Foundation, a major Swedish research foundation supporting research projects in collaboration with industry and other organisations. Activities: participation in the written scientific evaluation procedure of ICT research project proposals.
- 2010 Organization, as **Program co-chair**, in collaboration with con Prof. Dino Giuli and Prof. Andrea Bondavalli (Università di Firenze) of the Second International Workshop on “Sharing Field Data and Experiment Measurements on Resilience of Distributed Computing Systems”, Genova, 21 June 2010, co-located with the 30th IEEE International Conference on Distributed Computing System (ICDCS 2010)

Program Committee member and reviewer in international conferences and workshops

- IEEE Next Generation Internet Networks 2008 (NGI 2008);
- Third International Workshop on Ontologies in Distributed and Interactive Systems ONTORACT 2008;
- Third International Workshop on Ontologies in Distributed and Interactive Systems (ODIS 2009), colocated with the OTM Meaningful and Ubiquitous System conference
- 4th International Conference on New Trends in Information Science and Service Science (NISS 2010);
- the Fifth International Conference on Internet and Web Applications and Services (ICIW 2010);
- 6th International Conference on Networked Computing and Advanced Information Management (NCM 2010);
- the First International Conference on Integrated Intelligent Computing (ICIIC 2010);
- the International Conference on Internet and Web Applications and Services (ICIW 2011);
- 1st International Conference on Cloud Computing and Services Science (CLOSER 2011);
- 2nd International Conference on Cloud Computing and Services Science (CLOSER 2012)
- 3rd International Conference on Cloud Computing and Services Science (CLOSER 2013)
- 4th International Conference on Cloud Computing and Services Science (CLOSER 2013)
- The International Workshop on Internet of Ubiquitous and Pervasive Things (IUPT-11, IUPT-12 and IUPT-13)
- The 2nd International Conference on Connected Vehicles & Expo (ICCVE 2013).
- 7th IEEE International Systems Conference (SysCon 2013).

- 8th Annual IEEE International System Conference 2014 (SysCon 2014)
- International Workshop on Advances in Satellite Communications and Networking (SatComNet'14)
- The 2014 International Workshop on the Design and Performance of Networks on Chip (DPNoC 2014)
- 2014 International Workshop on Mobile Applications (MobiApps 2014)
- 2014 International Conference on Connected Vehicles & Expo

Participation to Conferences and Workshops

Participation as speaker to: 2nd IEEE WoWMoM Workshop on the Internet of Things: Smart Objects and Services (IoT-SoS 2013, colocated with 14th IEEE Int. Symp. on a World of Wireless, Mobile and Multimedia Networks (WoWMoM 2013), Madrid, Spain 4 June 2013.

Participation as speaker to: IEEE International Conference on Service Computing (SCC 2011), Washington, US, July 4-9, 2011.

Participation as speaker to: Annual Meeting GTTI (Gruppo Telecomunicazioni e Tecnologie dell'Informazione), Taormina, June 2011.

Participation as speaker to: 11th International Conference on Telecommunications for Intelligent Transport Systems (ITST-2011), Saint Petersburg, Russia, August 23-25, 2011.

Participation as speaker and chairman to: IEEE International Conference on Service Computing (SCC 2010), Miami, Florida, July 5-10, 2010.

Participation as speaker to: Annual Meeting GTTI (Gruppo Telecomunicazioni e Tecnologie dell'Informazione), Brescia, June 2010.

Participation as speaker to: IEEE Consumer Communications and Networking Conference (CCNC), January 9-12, 2010, Las Vegas, USA.

Participation as speaker to: 20th Tyrrhenian Workshop on Digital Communications "The Internet of Things", Pula, Sardegna, September 2-4, 2009

Participation as speaker to: IEEE 21st International Conference on Advanced Information Networking and Applications (AINA 2007), Niagara Falls, Canada, May21-23, 2007

Participation as speaker to: 4th International Conference on Universal Access in Human-Computer Interaction, UAHCI 2007, Part of HCI International 2007, Beijing, China, July 22-27, 2007.

Participation as speaker to: Workshop “Il progetto TeleP@B (Tecnologie Elettroniche per la Partecipazione al Bilancio)”, promoted by the Institute of Legal Information Theory and Techniques (ITTIG), Italian National Research Council, January 26, 2007, Florence, Italy.

Participation as speaker to: Workshop “Apprendere, socializzare, conoscere con le tecnologie: libri e scenari per il futuro” Firenze, March 30, 2007.

Participation to: "PerCom 2006" - Fourth IEEE International Conference on Pervasive Computing and Communications, Pisa, 2006.

Participation as speaker to: eChallenges 2006, October 2006, 25-27, Barcelona

Participation as speaker to: 9th ERCIM Workshop "User Interfaces For All", Special Theme: Universal Access in Ambient Intelligence Environments, September, 27-28 2006, Königswinter (Bonn), Germany.

Participation as speaker to: IRMA International Conference 2004, New Orleans, USA, May 23-26, 2004.

Participation as speaker to: 2nd Conference on Universal Access in Human Computer Interaction (UAHCI), Creta, 2003.

Participation to: Annual Congress - AICA (Associazione Italiana per l'Informatica ed il Calcolo Automatico) “ICT, globalization and localisms”, Conversano, Bari, Italy, 2002.

ASSOCIATIONS

Since 2007 IEEE Member

Since 2011 Member of the IEEE Italy Section Systems Council Chapter (ISSCC)

NON-ACADEMIC PROFESSIONAL ACTIVITY

2008 Consultant for Negentis SpA (ICT enterprise in Firenze), June-December 2008.

Activities: comparative study and analysis of semantic and context-aware technologies in service-oriented middleware and their use for info-mobility applications design and development.

2005-2006 Consultant for Dr Wolf (ICT enterprise in Firenze), 2005-2006. Activities: design and development of JAVA software modules in a knowledge management system; research project proposal and technical reports writing.

2004-2006 Consultant for BestNetLab (No-profit organization in Firenze), 2004-2006. Activities: requirements analysis and preliminary design of a service-oriented e-government infrastructure within the ICAR project (Interoperabilità e Cooperazione Applicativa tra le Regioni). ICAR is an e-government project participated by 17 Italian Regions, funded by the Italian Government, aiming at realizing a large scale network infrastructure enabling interoperability across Regions for e-government services.

2002 Consultant for SAGO SpA (ICT enterprise, Firenze), June - December 2002. Activities: definition of research project proposals in National and European funding programs on the adoption of e-Learning and mobile and context-aware technologies in the health domain.

LANGUAGES

| | |
|---------|--------------------------------|
| Italian | Mother-tongue |
| English | Fluent in speaking and writing |
| French | Intermediate |
| German | Pre-Intermediate |

SCIENTIFIC PUBLICATIONS

Journals

J.1 L. Bianchi, F. Paganelli, M.C. Pettenati, S. Turchi, L. Ciofi, E. Iadanza, D. Giuli, "Design of a

- RESTful Web information system for drug prescription and administration", *IEEE Journal of Biomedical and Health Informatics*, published on line 2013 (in press) DOI: 10.1109/JBHI.2013.2282827
- J.2 F. Paganelli, S. Turchi, L. Bianchi, L. Ciofi, M.C. Pettenati, F. Pirri, D. Giuli, "An information-centric and REST-based approach for EPC Information Services", *Journal of Communications Software and Systems*, vol.9, no. 1, 2013.
- J.3 D. Giuli, F. Paganelli, S. Cuomo, P. Cianchi, "Towards a cooperative approach for continuous innovation of Mobility Information Services", *IEEE Systems Journal*, 2013, doi: 10.1109/JSYST.2013.2255521
- J.4 F. Paganelli, D. Parlanti, "A Dynamic Composition and Stubless Invocation Approach for Information-Providing Services", *IEEE Transactions on Network and Service Management*, vol.10, no.2, pp.218,230, June 2013, doi: 10.1109/TNSM.2013.022213.120229
- J.5 Paganelli F., Pecchi F., "Towards a Reference Model and a Web-based Framework for eParticipation Services Design", *Information Resources Management Journal*, vol. 26, no. 2, pp. 1-19, 2013. doi: 10.4018/irmj.2013040101
- J.6 G. Bernardini, F. Paganelli, M. Manetti, A. Fantechi, E. Iadanza, "SYRMA: a Tool for a System Approach to Risk Management in Mission Critical Systems", *International Journal of Business Information Systems*, vol. 13, no. 1, pp. 21-44, 2013. doi: 10.1504/IJBIS.2013.054166
- J.7 F. Paganelli and D. Parlanti, "A DHT-Based Discovery Service for the Internet of Things," *Journal of Computer Networks and Communications*, vol. 2012, Article ID 107041, 11 pages, 2012. doi:10.1155/2012/107041
- J.8 F. Paganelli, T. Ambra, D. Parlanti, "A QoS-aware Service Composition Approach based on Semantic Annotations and Integer Programming", *International Journal of Web Information Systems*, vol. 8, no. 3, pp.296-321, 2012, Emerald. doi: 10.1108/17440081211258187
- J.9 I. Zappia, F. Paganelli, D. Parlanti, "A Lightweight and Extensible Complex Event Processing System for Sense and Respond Applications", *Expert Systems with Applications*, vol. 39, no. 12 , pp. 10408-10419, 2012. doi: 10.1016/j.eswa.2012.01.197
- J.10 F. Paganelli, D. Giuli, "An Ontology-based System for Context-aware and Configurable Services to Support Home-based Continuous Care", *IEEE Transactions on Information Technology in Biomedicine*, vol.15, no.2, pp.324-333, March 2011, doi: 10.1109/TITB.2010.2091649
- J.11 D. Parlanti, F. Paganelli, D. Giuli, "A Service-Oriented Approach for Network-Centric Data Integration and its Application to Maritime Surveillance", *IEEE Systems Journal*, vol. 5, no.2, 2011, doi: 10.1109/JSYST.2010.2090610
- J.12 F. Paganelli, E. Spinicci, D. Giuli. "ERMHAN: A context-aware service platform to support continuous care networks for home-based assistance", *International Journal of Telemedicine and Applications*, vol. 2008, Article ID 867639, 2008. doi:10.1155/2008/867639
- J.13 F. Paganelli, D. Giuli. "Context-aware Information Services to Support Tourist Communities",

Journal of Information Technology & Tourism, vol. 10, no. 4, pp. 313-327, 2008, doi: 10.3727/10983050878840315

- J.14 F. Paganelli, M.C. Pettenati, D. Giuli, "A Metadata-based Approach for Unstructured Document Management in Organizations", *Information Resource Management Journal*, vol. 19, no. 1, pp. 1-22, 2006. doi: 10.4018/irmj.200601010
- J.15 F. Paganelli, M.C. Pettenati, D. Giuli, "A Model-driven Method for the Design and Deployment of Web-based Document Management Systems", *Journal of Digital Information*, vol.6, no. 3, 2005, <http://journals.tdl.org/jodi/article/view/67/149>.

Book

- B.1 F. Sorrentino, F. Paganelli. *L'intelligenza distribuita - Ambient intelligence: il futuro delle tecnologie invisibili*, Erickson Eds, 2006. <http://www.erickson.it/erickson/product.do?id=1157>. Book recommended for the "Multimedia and Interaction Design" course ("Progettazione Multimediale e Progettazione dell'Interazione"), Literature and Philosophy Faculty at the University of Siena (Lecturer: D.ssa Elisa Rubegni), 2008/2009.

Phd Thesis

- T.1 F. Paganelli. *A Metadata Model for Unstructured Document Management in Organizations*. Phd dissertation. Department of Electronics and Telecommunications, University of Florence, Italy, 2004.

Chapters in Books

- C.1 F. Paganelli, D. Giuli. "An Evaluation of Context-Aware Infomobility Systems", in *Context-Aware Mobile and Ubiquitous Computing for Enhanced Usability: Adaptive Technologies and Applications*, IGI Global, USA.
- C.2 F. Paganelli, M.C. Pettenati, D. Giuli (2007)." A Metadata-Based Approach for Unstructured Document Management in Organizations", in *Advanced Topics in Information Resources Management*, vol. 7, ch. XIV, edited by Mehdi Khosrow-Pour, IGI Global, 2007, USA.

Conference Proceedings

- P.1 S. Turchi, F. Paganelli, L. Bianchi, D. Giuli, "A lightweight Linked Data implementation for modeling the Web of Things, 1st Int. IEEE Workshop on Pervasive Systems for Smart Cities, held in conjunction with the 12th IEEE Int. Conf. on Pervasive Computing and Communications (PerCom 2014), Budapest, Hungary on March 24-28, 2014.
- P.2 T. Ambra, F. Paganelli, A. Fantechi, D. Giuli, L. Mazzi, "Resource-oriented design towards the

- convergence of Web-centric and Telecom-centric services", Second International Conference on Future Generation Communication Technologies (FGCT 2013) December 12-14, 2013 British Computer Society, London, UK.
- P.3 S. Turchi, L. Bianchi, F. Paganelli, F. Pirri, D. Giuli, "Towards a Web of Sensors built with Linked Data and REST", 2nd IEEE WoWMoM Workshop on the Internet of Things: Smart Objects and Services (IoT-SoS 2013, colocated with 14th IEEE Int. Symp. on a World of Wireless, Mobile and Multimedia Networks (WoWMoM 2013), Madrid, Spain 4-7 June.
- P.4 F. Paradiso, F. Paganelli, A. Luchetta, D. Giuli, P. Castrogiovanni, "ANN-based Appliance Recognition from Low-frequency Energy Monitoring Data, Int. Workshop on Smart City and Ubiquitous Computing Applications, colocated with 14th IEEE Int. Symp. on a World of Wireless, Mobile and Multimedia Networks (WoWMoM 2013), Madrid, Spain 4-7 June.
- P.5 S. Turchi, Ciofi, F. Paganelli, F. Pirri, D. Giuli, "Designing EPCIS through L Linked Data and REST principles", SoftCOMM 2012, Split, Croatia, 11-13 september 2012
- P.6 F. Paganelli, G. Vannuccini, D. Parlanti, D. Giuli, P. Cianchi, "GEMOM Middleware Self-healing and Fault-tolerance: a Highway Tolling Case Study", in the Proc. of the Sixth International Conference on Systems and Networks Communications, ICSNC 2011, Barcelona, 2011.
- P.7 F. Paganelli, T. Ambra, D. Parlanti, D. Giuli, "A semantic-driven Integer Programming Approach for QoS-aware Dynamic Service Composition", FITCE International Congress, Palermo, Italy 2011.
- P.8 I. Zappia, D. Parlanti, F. Paganelli, "LiSEP: a Lightweight and Extensible tool for Complex Event Processing", IEEE Service Computing Conference 2011, Washington, 2011
- P.9 D. Giuli, F. Paganelli, S. Cuomo, P. Cianchi, "A Systemic and Cooperative Approach towards an Integrated Infomobility System at Regional Scale", IEEE International Conference on ITS Telecommunications (ITST 2011).
- P.10 F. Paganelli, D. Parlanti, D. Giuli (2010) "Message-based Service Brokering and Dynamic Composition in the SAI Middleware", in the Proc. of IEEE International Conference on Service Computing (SCC 2010), Miami, Florida, 2010.
- P.11 D. Parlanti, F. Paganelli, D. Giuli, A. Longo, (2010) "Experiencing a SOA approach for network-centric data integration in the maritime surveillance domain", in the Proc. of IEEE International Systems Conference 2010, San Diego California.
- P.12 F. Paganelli, D. Parlanti, D. Giuli (2010) "A Service-Oriented Framework for distributed heterogeneous Data and System Integration for Continuous Care Networks", in the Proc. of 7th Annual IEEE Consumer Communications and Networking Conference, Las Vegas, IEEE Communication Society, 2010.
- P.13 P. Ristau, S. Topham, F. Paganelli, L. Blasi, "GEMOM Platform Prototype Validation through Case Studies - Main Results and Viewpoints to Exploitation," Distributed Computing Systems Workshops (ICDCSW), 2010 IEEE 30th International Conference on , vol., no., pp.290-291, 21-25 June 2010
- P.14 D. Parlanti, F. Paganelli, D. Giuli (2009) "A Scalable Grid and Service-Oriented Middleware for

Distributed Heterogeneous Data and System Integration in Context-Awareness Oriented Domains”, accepted for inclusion in the Proc. of 2009 Tyrrhenian International Workshop on The Internet of Things, 2-4 September 2009, Springer, Germany.

- P.15 F. Paganelli, D. Giuli (2009) “Telep@b project: towards a model for eParticipation and a case study in participatory budgeting”, in the Proc. of 3rd International Conference on e-Democracy "Next Generation Society: Technological and Legal Issues", Greece, 23-25 September 2009, Springer Lecture Notes of ICST (LNICTS), Springer, Germany.
- P.16 M. Bandinelli, F. Paganelli, G. Vannuccini, D. Giuli (2009) "A Context-aware Security Framework for Next Generation Mobile Networks", in Security and Privacy in Mobile Information and Communication Systems, First International ICST Conference, MobiSec 2009, Turin, Italy, June 3-5, 2009, Springer, Germany.
- P.17 F. Paganelli, D. Parlanti, N. Francini, D. Giuli (2009) "A SOA-based Mobile Guide to augment tourists experiences with user-generated content”, in the Proc. of the Fourth International Conference on Internet and Web Applications and Services, ICIW 2009, 24-28 May 2009, Venice/Mestre, Italy. IEEE Computer Society 2009.
- P.18 F. Paganelli , E. Spinicci, A. Mamelli , R. Bernazzani, P. Barone (2007). "ERMHAN: A multi-channel context-aware platform to support mobile caregivers in continuous care networks", in the Proceedings of 2nd IEEE International Workshop on Services Integration in Pervasive Environments, Istanbul, Turkey, July 2007
- P.19 F. Paganelli, D. Giuli (2007). "An Ontology-based Context Model for Home Health Monitoring and Alerting in Chronic Patient Care Networks", in the Proceedings of First International Workshop on Smart Homes for Tele-Health, AINA 2007 the IEEE 21st International Conference on Advanced Information Networking and Applications.
- P.20 F. Paganelli, D. Giuli (2007). "A context-aware service platform to support continuous care networks", in the Proceedings of Universal Access in Human-Computer Interaction. Ambient Interaction, 4th International Conference on Universal Access in Human-Computer Interaction, UAHCI 2007 Held as Part of HCI International 2007 Beijing, China, July 22-27, 2007, Lecture Notes in Computer Science, Springer, Germany.
- P.21 F. Paganelli, G. Bianchi, V. Melani (2006). "A Context-aware eTourism Application Enabling Collaboration and Knowledge Exchange among Tourists", in the Proceedings of eChallenges 2006 Conference, 25 - 27 October 2006, Barcelona, Spain: Exploiting the Knowledge Economy: Issues, Applications, Case Studies, Paul Cunningham and Miriam Cunningham (Eds), IOS Press, 2006 Amsterdam, ISBN: 1-58603-682-3.
- P.22 F. Paganelli, G. Bianchi, D. Giuli (2006). "A Context Model for Context-aware System Design towards the Ambient Intelligence Vision: Experiences in the eTourism Domain", 9th ERCIM Workshop "User Interfaces For All", Special Theme: “Universal Access in Ambient Intelligence Environments”, 27 - 28 September 2006, Königswinter (Bonn), Germany. Lecture Notes in Computer

Science, Springer, Germany.

- P.23 Boukottaya, C. Vanoirbeek, F. Paganelli, O. Abou Khaled (2004). "Automating XML document Transformations: A conceptual modeling based approach". In the Proceedings of the First Asia-Pacific Conference on Conceptual Modeling. Dunedin, New Zealand, January 18 -- 22, 2004.
- P.24 F. Paganelli, O. Abou Khaled, M.C. Pettenati, D. Giuli (2004). "Designing a Metadata Model for Unstructured Document Management in Organizations". In the Proc. of IRMA International Conf. 2004 New Orleans, USA. In M. Khosrow-Pour (Ed.). Innovations Through Information Technology (pp. 575-579). Hershey, PA: Idea Group Publishing.
- P.25 F. Paganelli, O. Abou Khaled, M.C. Pettenati, D. Giuli (2004). "Document Management and Sharing Markup Language". In the Proceedings of the Multi-Konferenz Wirtschaftsinformatik MKWI 2004, Essen, Germany.
- P.26 F. Paganelli, M.C. Pettenati (2003). "A User-Centered Quality Model for Web Applications". In the Proc. of the 2nd International Conf. on Universal Access in Human-Computer Interaction (UAHCI 2003), Crete, Greece.

Technical reports and other publications

- R.1 D. Giuli, F. Paganelli, P. Neri, "Integrated Infomobility Systems: Experimenting an Open Technical and Cooperative Approach to Support Continuous Innovation and Evolution", *Polaris Innovation Journal*, SELEX Sistemi Integrati Technical Review, no. 8-2011, pp.56-62, December 2011.
- R.2 Contributo in "Terzo Rapporto sull'Innovazione nelle Regioni d'Italia 2005". – par. 7.2 Il Progetto ICAR (Interoperabilità e Cooperazione Applicativa tra le Regioni). Centri Regionali di Competenza per l'e-government e la società dell'Informazione.
- R.3 P. Cianchi, D. Giuli, F. Paganelli, S. Cuomo, "An evolutionary test-bed for infomobility service integration", Smart Mobility 2010.

Firenze, Italy

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