

PAOLA INVERARDI 2012

OCCUPATION

Paola Inverardi was born in L'Aquila on November 3rd 1957. She received a Laurea degree summa cum laude in Computer Science at University of Pisa on February 1981. Soon after she started working at the Olivetti DIDAU research centre in Pisa where she was part of the research team involved in the first Italian national project on Computer Science. In 1984 she became researcher at the Istituto di Elaborazione dell'Informazione – CNR. In 1994 she became full professor in Computer Science and she moved to University of L'Aquila. At that time there was no Computer Science Department in L'Aquila but only an educational degree that was supported by a limited number of computer scientists (8) and by mathematicians. The Computer Science group in L'Aquila suffered of a very high turnover especially in favour of big Universities in Rome. She took the responsibility of the computer scientist group becoming coordinator of the Laurea Program in Computer Science from 1994 to 2000 including the recruitment policy. The (successful) strategy that she promoted was to increase the number of recruitments at the research entry level in the areas that were already characterizing the initial group, i.e. algorithms, software engineering, operational research and computational logic and then favour the growth of the internal competencies and qualifications. In 2001 it was established the Department of Computer Science of which she became Director till the end of 2007. At present the Computer Science Department has 24 faculties, the average age is 40, turn over since 2004 is only positive for new research positions. The main research groups are well established and recognized in their own areas. The Software Engineering and Architecture Research Group led by Paola Inverardi has 9 people with average age 40, average H-index 15.6, 1.061 citation per-person (average) in total, and 685 citation per-person (average) in the last 5 years. From 2001 to December 2007 Paola Inverardi was member of the Senate Board of University of L'Aquila. From 2006 to 2007 she was President of the Board of the Directors of the Departments of University of L'Aquila. Since November 2008 she is Dean of the Faculty of Science and member of the Senate Board. Her term as Dean will end in 2012. In the last three years, since the devastating earthquake that destroyed the city of L'Aquila on April 6th 2009, Paola Inverardi has been part of the emergency commission set up by the Academic Senate to face the emergency situation. She is co-founder of Beep Innovation a spin-off company of University of L'Aquila, created in 2006 upon the approval and funding by the Ministry of Research of a scientific project coordinated by Paola Inverardi. Paola is member of ACM Europe Council (<http://europe.acm.org/>), and of Academia Europaea (<http://www.acadeuro.org/>).

RESEARCH INTERESTS and ACTIVITIES IN THE RESEARCH COMMUNITY

Paola Inverardi's main research area is in the application of rigorous methods to software production in order to improve software quality. In the last decade her research interests mainly concentrated in the field of software architectures as described in Section 1.(a). Recent research directions address the problem of dynamically adapting mobile applications to contexts that can exhibit different degrees of resources availability and the automatic synthesis of connectors for heterogeneous systems.

Paola Inverardi has (co-)authored over 160 publications in international journals and conference and workshop proceedings (<http://www.informatik.uni-trier.de/~ley/db/indices/a-tree/i/Inverardi:Paola.html>). She has been member at large of the ACM SIFSOFT (ACM Special Interest Group on Software Engineering) Executive Committee (<http://www.sigsoft.org/about/execComm.htm>). She is member of the ACM Europe Council (<http://europe.acm.org/>).

She is reviewer for, and member of, evaluation committees of national and international research funding agencies and universities: in the last two years for European Commission, INRIA, Swiss National Science Foundation, Swedish Research Council, Dutch Research Council, German Research Foundation, Netherlands Organisation for Scientific Research, Vienna Science and Technology Fund, CHIST-ERA, Fonds National de la Recherche Luxembourg, Academy of Finland, ETH-Zurich, University of Lugano.

PROJECT COORDINATION and FUNDING ID

In the last 10 years she has been twice national coordinator of two projects funded by the Italian Ministry of Research. Both projects were composed of 8 teams representing the most relevant software engineering Italian research groups. She is leader and scientific coordinator of the national project *Ricostruire* funded by the Italian Ministry for Economic Development under the RIDITT (Italian network for innovation and technology transfer to enterprises) program, starting April 2012 (2 Million cost, 1 Million funding). At present Paola Inverardi is leading the University of L'Aquila team (UDA) in two FP7 projects.

CONNECT (IST-2007-231167 - <http://connect-forever.eu/>) ending June 2012, is an IP FET and aims to drop interoperability barriers by synthesizing on the fly connectors via which heterogeneous networked systems communicate. The global EC contribution for the project is 4.8M€, for UDA it is € 476.960.

CHOREOS (IST-2010-257178 - <http://www.choreos.eu>) ending December 2013, is an IP whose objective is a framework for the development of scalable choreography composed of heterogeneous services that are adaptable and QoS aware. The global EC contribution for the project is 6.4 M€, for UDA is € 611.163.

Invited presentations in the last 5 years

“Engineering Software in the Future Era: The role of uncertainty” Invited talk at the conference Challenges in Computing for the 10th celebration of Simula Laboratories, Oslo, Norway December 2011.

“Developing Highly Complex Distributed Systems: A Software Engineering Perspective” Invited talk at Future of Middleware at Middleware'2011, Lisbon, Journal of Inherent Services and Applications.

“Assessing Dependability for Mobile and Ubiquitous Systems: Is there a Role for Software Architectures?” Keynote at QSIC'10, Proceedings of the 10th International Conference on Quality Software (QSIC'10) Zhangjiajie, China.

“Assessing dependability for mobile and ubiquitous systems: Is there a role for Software Architectures?” SERENE 2010 Spring School, Birkbeck College (London, UK)

“Run-time Models in Adaptive Service Infrastructures” keynote at Int. Workshop on Run-time Models for Self-managing Systems and Applications (ROSSA 2009), in proc. of ROSSA, 2010, pages 125-152.

“Assessing Dependability for Mobile and Ubiquitous Systems: Is there a Role for Software Architectures?” Keynote at WADS Workshop on Architecting Dependable Systems, 2009.

“The Future of Software: Adaptation and Dependability”, Int. Summer School on Software Engineering, <http://www.sesa.dmi.unisa.it/seschool/previousEditions/2007/>. Vol. 5413. Springer-Verlag, p.1-31.

Organization of International Conferences

Paola Inverardi participated and participates to program committees of the most relevant conferences on software architectures and software engineering among which, ICSE, ASE, FSE/ESEC, ISSTA, FSE, FASE, SEFM. She has been co-chair of the IWSSD 2000 workshop and of a joint CNR-NSF workshop on *“The Role of Software Architectures in analysis and testing”*, held in July 1998 with the participation of the most prominent European and USA researchers in the field of software architectures. She has been general chair and co-program chair of the Workshop on Software Performance (WOSP02) in 2002 and she has been program chair of the fourth joint meeting of the European Software Engineering Conf. and ACM SIGSOFT Symp. on the Foundations of Soft. Engin. (ESEC/FSE) conference in 2003. In 2006 she has been co-chair of the educational track at ICSE 2006. In 2008, she has been program co-chair of the ETAPS conference FASE 2008 and General Chair of Automated Software Engineering Conference (ASE 2008) held in L'Aquila in September 2008. She has been program co-chair of the International Conference on Software Engineering (ICSE 2009), which is the flagship research conference for the Software Engineering discipline, held in Vancouver in May 2009. In 2010 she has been General and Program Chair of the Italian ICT Society AICA that was held in L'Aquila and whose main theme was about the role that ICT can play in the re-construction of the future city of L'Aquila. She has been member and chair of the WOSP Steering Committee from 2002 to 2006. She is member since 2001 and

chair from 2003 to 2011 of the ESEC Steering Committee. She is member and Chair of the ICSE Steering Committee.

International recognition

On May 2011 Paola Inverardi has received a Honorary Doctorate at Mälardalen University Sweden 17 ex-aequo 16 among the top 50 software engineering scholars in “*Automatic and Versatile Publications Ranking for Research Institutions and Scholars*”, Ren, J. and Taylor, R. N., *Communication of ACM* 50, 6 (Jun. 2007), 81-85.

Memberships to Editorials Boards of International Journals

She is associate editor of the IEEE TSE Journal (<http://www.computer.org/portal/web/tse/>) and of the Springer Computing Journal (<http://www.springer.com/computer/journal/607>). She has been associate editor of the ACM TOSEM Journal (<http://www.acm.org/pubs/tosem/>) till December 2007.

PhD students

From 2002 to 2012, paola inverardi supervised 12 PhD students. They are listed below with their current working position. For the ones who entered the research carrier the H-index is reported. H. Muccini, Assistant Prof. (AP) at UDA – PhD 2002, Hi 16. M. Castaldi, Quality and Asset Management manager at ebilling S.p.A. – Italy PhD 2004. P. Pelliccione, AP at UDA – PhD 2005 Hi 15. M. Tivoli, AP at UDA – PhD 2005, Hi 15. A. Di Marco, AP at UDA – PhD 2005, Hi 12. M. Caporuscio, AP at Politecnico di Milano – PhD 2006, Hi 12. F. Mancinelli, Research Proj. Manager at XWiki.com, Paris –PhD 2006. L. Mostarda, Senior Lect. at Middlesex University, London – UK PhD 2006, Hi 6. M. Autili, AP at UDA – PhD 2008, Hi 11. P. Di Benedetto, Chief Technical Manager at Ministero di Grazia e Giustizia – Italy PhD 2010, R. Spalazzese, post-doc at UDA – PhD 2011, Hi 5., M. Mori Post-doc at FUNDUP-Namur – PhD 2012