

# Daniela Mazza

University of Bologna (Italy)

Department of Electrical, Electronic and Information Engineering “Guglielmo Marconi”

Phone: (+39) 329 2125621 - Email: [daniela.mazza6@unibo.it](mailto:daniela.mazza6@unibo.it)

Update: October 2015

## CURRENT POSITION

**Full-time Ph.D. Student in Electronics Engineering, Telecommunications and Information Technology**, Alma Mater Studiorum - University of Bologna, Italy

- Started on January 2013
- Topic: Distributed multimedia systems for the Internet of Things in a smart city framework considering synchronization, provenance, quality of experience.

## RESEARCH INTERESTS

My current research focuses on the analysis of heterogeneous communication systems in a smart city framework, characterized by a multitude of smart devices, sensors and processing nodes into an environment of pervasive wireless technologies, aiming at distributing collective services to citizens and improving quality of life. My current interests include: wireless communication, mobile cloud computing, smart cities, Internet of Things, vehicular networks, ubiquitous computing.

## EDUCATION

**Second B.S. in Communication Sciences** 2002 - 2005  
Alma Mater Studiorum - University of Bologna, Italy

- Specialization: New Media Semiotics
- Thesis Title: A communication project for the Legislative Assembly website of Emilia Romagna Region (Italy)
- Grade: 103/110

**Laurea (B.S. + M.S.) in Electronics Engineering** 1985 - 1991  
Alma Mater Studiorum - University of Bologna, Italy

- Specialization: Bioengineering
- Thesis Title: Comparative evaluation of elastance-resistance models of left ventricular mechanics
- Grade: 91/100

## WORK EXPERIENCE

**Technical Expert in Integration Services** 2008 - 2012  
Directorate-General for Telecommunications and Information Systems, Emilia Romagna Region (Italy)

- Analysis, design and development of software applications and databases, implementation of Public Administration portals and applications for database management.
- Developing and optimization of applications and procedures for citizen services, including social timebanking, social services geolocation, management of legislative processes.

**Expert in ICT** 2002 - 2007  
Legislative Assembly, Emilia Romagna Region (Italy)

- Analysis, design and development of software applications and databases, design of the website architecture and integration with database platforms.

- Developing and optimization of administrative procedure programs to ensure transparency in Public Administration, with particular regard to privacy legislation.

**Expert in Environmental Impact Assessment** 1999 - 2001

Directorate-General for Environment, Emilia Romagna Region (Italy)

- Analysis, design and development of the information system for the Environmental Impact Assessment.
- Member in Public Committees for the evaluation of several projects related to Environmental Impact Assessment.

**Public-sector Manager** 1997 - 1998

Directorate-General for Industry, Emilia Romagna Region (Italy)

- Support and consultancy in export promotion to technology-oriented SMEs and SME associations operating in the Emilia Romagna Region.
- Analysis, design and development of a software application to support activities related to the Regional Law 9/94 for managing public funds aimed at promote business innovation and growth.
- Audits and verifications of SME benefitting from regional contributions.

**Quality Assurance Manager** 1995 - 1997

IMA INDUSTRIES S.r.l. BFB Division, Bologna Packaging Machines

- Coordination and Management of the QA team (3 people) to determine and establish procedures and quality standards, interacting with the entire organization staff (about 200 people).

**Quality Assurance Manager Assistant** 1992 - 1994

Datalogic Spa (BO), Optoelectronic systems for image recognition, bar code reading systems

- Assisting the QA Manager to determine and establish procedures and quality standards, interacting with the entire organization staff (about 500 people).

**PUBLICATIONS**

- [1] D. Mazza, A. Pags-Bernaus, D. Tarchi, A. Juan Perez, and G. Corazza, "A biased-randomized algorithm for mobile cloud computing in smart cities," in *IEEE Systems Journal*, submitted.
- [2] D. Mazza, D. Tarchi, and G. Corazza, "A cluster based computation offloading technique for mobile cloud computing in a smart city scenario," in *Proc. of IEEE Conference on Communication (ICC) 2016*, Kuala Lumpur, Malaysia.
- [3] —, "A user-satisfaction based offloading technique for smart city applications," in *Global Communications Conference (GLOBECOM), 2014 IEEE*, Dec 2014, pp. 2783–2788. [Online]. Available: <https://goo.gl/4A8h15>
- [4] —, "A partial offloading technique for wireless mobile cloud computing in smart cities," in *Networks and Communications (EuCNC), 2014 European Conference on*, June 2014, pp. 1–5. [Online]. Available: <https://goo.gl/SMja54>
- [5] G. Avanzolini, A. Cappello, and D. Mazza, "Comparative evaluation of three elastance-resistance models of left ventricular mechanics," in *Computers in Cardiology 1991, Proceedings.*, Sep 1991, pp. 653–656. [Online]. Available: <https://goo.gl/jlfYND>

**TEACHING EXPERIENCE**

**Official Trainer of Informatics and Office Automation** 2002  
 Directorate-General for Telecommunications and Information Systems, Emilia Romagna Region (Italy)

**High School Substitute Teacher** 1992 - 1999  
 Substitute Teacher in Electronics, Informatics, Electronic Systems programs for many high schools in the Greater Bologna Area

**Member of the Examination Board for the High School Final Exam** 1992

- ITIS Fermi, Ascoli Piceno, Italy

**ASSESSMENT ACTIVITIES**

**Commissioner** - Evaluation of SME projects 1997 - 1999  
 Evaluation process related to regional programs funded by the European Social Fund to promote SME innovation and growth (Objective 2, RETEX and PMI-SME Initiatives)

**GRANTS**

**Cyber Security and Security Manager Course Fellowship** 2014  
 Unilink University, Rome, Italy

**Smart Cities Management Course Fellowship** 2013  
 Polytechnic University of Turin, Italy

**VOLUNTEER ACTIVITIES**

**Student Volunteer** 2014  
 IEEE HPCS International Conference on High Performance Computing & Simulation, July 21 - 25, 2014, Bologna, Italy

**MEMBERSHIP**

IEEE Communications Society Membership  
 IEEE Membership

**REFERENCES**

**Prof. Giovanni Emanuele Corazza**  
 Phone: +39 051 20 9 3054  
[giovanni.corazza@unibo.it](mailto:giovanni.corazza@unibo.it)  
 Prof. Corazza is my Ph.D. Advisor.

**Ass. Prof. Dr. Daniele Tarchi**  
 Phone: +39 051 20 9 3135  
[daniele.tarchi@unibo.it](mailto:daniele.tarchi@unibo.it)  
 Dr. Daniele Tarchi is my Ph.D. co-advisor.

**Dr. Grazia Cesari**  
 Phone: +39 051 52 7 3149  
[gcesari@regione.emilia-romagna.it](mailto:gcesari@regione.emilia-romagna.it)  
 Dr. Grazia Cesari is Director-General for Telecommunications and Information Systems of Emilia Romagna Region.