

# Elisabetta Di Nitto Curriculum Vitae

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## Professional History

Elisabetta Di Nitto is Full Professor in the Dipartimento di Elettronica, Informazione e Bioingegneria of Politecnico di Milano. From April 1996 to June 1999 she has been researcher at CEFRIEL, leading the software engineering area. From April 1998 to September 1998 she has been visiting professor at University of California, Irvine (USA). In July 1999 she joined Politecnico di Milano first as researcher and then as associate professor and in 2016 as full professor.

Elisabetta holds a PhD in Information Technology Engineering, accomplished at Politecnico di Milano in 1995.

Elisabetta's expertise lies in the area of software engineering and, in particular, of large-scale, open, service-oriented systems with a special attention to the techniques to make these systems self-adaptable to the changes in the environment and in the performances of its distributed components, and to enable them to identify and incorporate new components at runtime. Recently, she has been focusing on supporting the development, deployment and operation of data-intensive applications and on Cloud Computing and, in particular, on how to design applications that can run on multiple clouds in order to limit vendor lock-in and to increase availability and reliability of such applications. In the last years she has started focusing on quantum software engineering, in particular, identifying the challenges faced by experts in software engineering when they develop software for quantum systems.

## Publications

Elisabetta has published more than 160 papers in journals and in the proceedings of the most important conferences in the area of software engineering.

According to Google Scholar, in January 2025 there are more than 7699 citations of the works that she has co-authored, with a h-index equal to 43. According to Scopus, in January 2025 the total number of citations exceeds 3372 and the h-index is 32.

## Teaching

Elisabetta is currently teaching the following courses:

- Software Engineering 2 for the graduate curriculum on Computer Science and Engineering at Politecnico di Milano.
- Software Engineering for High Performance Computing for the graduate curriculum on HPC Engineering.
- Foundations of computer science for the undergraduate curriculum on Ingegneria Meccanica e Ingegneria Energetica.

Moreover, she has been teaching courses for PhD students on quantum software engineering, self-adaptive systems and cloud computing as well as courses for enterprises on software engineering, cloud computing, NoSQL databases, IT governance.

## Member of International Boards

- SIGSOFT Executive Committee (treasurer)
- Informatics Europe (current member of the executive committee and treasurer)
- IFIP working group on Services-oriented Systems (WG 2.14/6.12/8.10)
- QE LaB Advisory Board

## Evaluator

Elisabetta has been evaluator of project proposals for the following programmes: EU FP7 programme, the Executive Board of the Austrian Science Fund, the French CHIST-ERA programme, the WWTF Information and Communication Technology Call 2010, the Science Foundation Ireland Starting

Investigator Research Grant (SIRG) and Career Development Award (CDA), FCT – the Portuguese research evaluation system.

Moreover, she has been evaluator of candidates for professorship at Aalto University Finland and University of Southern Denmark and has been member to the evaluation committee for full professor positions at University of Tor Vergata, University of Federico II, Naples and University of Pisa, for associate professor positions at the University of Verona and Politecnico di Milano, for researcher positions (RTDB and RTDA) at University of l'Aquila, University of Insubria, University of Pisa, University of Tor Vergata.

### **Member of Editorial Boards**

Current member

- ACM Transactions on Software Engineering and Methodology
- SOCA journal
- Journal of Software: Evolution and Process
- PeerJ Computer Science

Past member

- IEEE Transactions on Software Engineering

She has been co-editor in chief of SoftwareX

### **Conference committees**

- program co-chair of IEEE QSW 2025
- program co-chair of ACSOS 2022
- program co-chair of SEAMS 2020
- general chair of ICAC 2018
- general chair of ESEC-FSE 2015
- program co-chair of ASE 2010
- program co-chair of ServiceWave 2010
- MIP co-chair at ASE 2020
- Journal first chair at ASE 2019
- workshops co-chair of ICSE 2010
- workshops co-chair of ICSOC 2006
- demo track chair of ICSE 2007
- tutorial chair of ASE 2014
- workshop co-chair of QUDOS 2017
- program committee and program board of various international conferences such as ICSE, ASE, FSE, ESEC-FSE, ICSOC, ICAC, ServiceWave, SEKE, DEXA.

### **Keynote Speaker at International Conferences**

- 2010 International Conference on Global Software Engineering
- 2011 Third International Workshop on Principles of Engineering Service-Oriented Systems
- 2018 DevOps 2018 – Chateau de Villebrumier, France

### **Participation in funded projects**

- Coordinator of the FP7 Integrated Project MODAClouds (n. 318484), period 2012-2015, overall budget 8.5 Ml Euro.
- Scientific director of the Project DICE, period 2015-2018, overall budget 3.95 Ml Euro.
- Technical coordinator of the Project SODALITE, period 2019-2022, overall budget 5 Ml Euro.
- Scientific director of the Integrated Project SeCSE, period 2004-2008, budget for CEFRIEL 1.7 Ml Euro.
- Responsible for Polimi of the H2020 project PIACERE, period 2020-2023, budget for Polimi

592 K Euro

- Responsible for Polimi of the H2020 project SwForum.eu, period 2020-2023, budget for Polimi 148 K Euro.
- Responsible for Polimi of the Marie Curie ITN SpotLight, period 2017-2021, budget for Polimi 520 K Euro.
- Responsible for Polimi of the STREP SeaClouds, period 2013-2015, budget for Polimi 440 K Euro
- Responsible for Polimi of the FET CASCADAS, period 2006-2009, budget for Polimi 225 K Euro
- Workpackage leader in the S-Cube (Software Services and Systems) Network of Excellence, period 2008-2011 (379 K Euro).
- Supporting the coordination of ART DECO (Adaptive InfRasTuctures for DECentralized Organizations), Italian Ministry for University and Research, period 2006-2009 (653.8 K Euro).
- Participant in the projects SMScom, SLA@SOI, SOA4All, D-ASAP.

### **PhD students**

- Luca Cavallaro (2007-2010)
- Daniel J. Dubois (2008-2010)
- Nicola Calcavecchia (2010-2012)
- Marco Miglierina (2013-2017)
- Luca Florio (2013-2016)
- Marco Scavuzzo (2014-2017)
- Michele Guerriero (2015-2018)
- Bin Xiang (2017-2021)
- Vick Pierce Dini (2022-2025)
- Simone Reale (2023-2026)
- Marco Garlini (2024-2027)

### **Participation to PhD committees**

- Jon Arvid Børretzen, Norwegian University of Science and Technology, defense 2007
- Qin Gu, VU University Amsterdam, defense 2011
- Grégory Nain, Irista University, Rennes, defense 2011
- Issac Garcia, University of Grenoble, defense 2012
- Aneta Vulgarakis, Mälardalen University, defense 2012
- Maryam Razavian, VU University Amsterdam, defense 2013
- Paul Snyder, Drexel University, Philadelphia, defense 2013
- Damian Andrew Tamburri, VU University Amsterdam, defense 2014
- Indika Priyantha Kumara Weerasingha Dewage, Swinburne University of Technology, defense 2015

### **Supervised post-docs**

Past: Michele Ciavotta, Damian Andrew Tamburri, Mehernoosh Askarpour, Bin Xiang, Galia Novakova Nedeltcheva

### **Grants and awards**

- Amazon AWS research award in 2010, 2012 and 2013.
- Microsoft Azure research award in 2013.
- In the journal Information and Software Technology, vol 50, 2008 the paper co-authored by Cugola, Fuggetta and myself and published on IEEE Transaction on Software Engineering, 27 (9) 2001, pp 827-850 was listed as the second most cited paper of that year.
- Best paper award at ICSA 2018 for the paper: Matej Artac, Tadej Borovsak, Elisabetta Di Nitto,

Michele Guerriero, Diego Perez-Palacin, Damian Andrew Tamburri: Infrastructure-as-Code for Data-Intensive Architectures: A Model-Driven Development Approach. ICSA 2018: 156-165.

- Best paper award at CAISE 2023 for the paper: Michele Chiari, Bin Xiang, Galia Novakova Nedeltcheva, Elisabetta Di Nitto, Lorenzo Blasi, Debora Benedetto, Laurentiu Niculut, DOML: A New Modelling Approach to Infrastructure-as-Code.

#### **Activities at Politecnico**

- Member of the board of professors of the doctoral program in Information Technology at Politecnico in 2001 before maternity leave.
- Member of the committee for monitoring and improving teaching in IT at Politecnico (Commissione AVA).
- Member of the Teachers-Students committee of the School of Industrial and Information Engineering
- Member of the management committee of the interdepartmental laboratories PoliCloud and DataCloud.
- Member of the PhD applications evaluation committee in 2018.
- Member of the evaluation committee for one Associate Professor position in 2019.

In faith,

*Elisabetta Di Nitto*