



Patrizia Scandurra

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CURRENT POSITION

Associate professor at the Department of Management, Information and Production Engineering (DIGIP) of the University of Bergamo [10/2017–Present]

- DIGIP Delegate for Quality Policies,
- Member of the University Quality Assurance Unit,
- Full Professor qualification:
 - 01/B1 - INFORMATICA01/B1 from 31/01/2022 to 31/01/2034
 - 09/IINF-05 - Sistemi di elaborazione delle informazioni from 14/03/2025 to 14/03/2037

Research Interests:

- Software Engineering, Software Architecture
- Formal methods for Safety Assurance of Software Systems
- Self-Adaptive and Autonomous systems, (micro)service-based systems and component-based distributed systems, IoT-Edge-Cloud systems, embedded systems and cyber-physical systems
- Integration of Formal Methods and Model-Driven Engineering for the definition of languages and development environments
- Abstract State Machines (ASMs)

Recent research projects:

European projects (role: participant)

- GLACIATION (Green responsible privacy preserving data operations), Horizon Europe, 1/10/2022-30/9/2025 <https://glaciation-project.eu/>
- MOSAICrOWN (Multi-Owner data Sharing for Analytics and Integration respecting Confidentiality and Owner control), H2020, from Jan 2019 to Dec 2021, URL: <https://mosaicrown.eu/>

National/industrial projects

- Project “Definizione di metodologie di testing, sviluppo di nuove feature e consolidamento dei servizi esistenti della piattaforma PELL”, funded by the agency ENEA (agenzia nazionale per le nuove tecnologie, l'energia e lo sviluppo economico sostenibile) and related to the Italian national project “Piano triennale di realizzazione 2022-2024 della Ricerca di Sistema elettrico nazionale”, January 1, 2024 - December 31, 2024 (**role: Scientific Lead**)
- PRIN project 2022 SAFEST: Trust assurance of Digital Twins for medical cyber-physical systems, 2023-25 (**role: participant**)

- SMIMI (Security in Modern Information Management Infrastructures), PNRR “a cascata” Spoke 10 of SERICS, Extended Partnership (PE00000014) Next Generation EU, April 1, 2024 - October 31, 2025 **(role: participant)**
- MIUR FISR 2020 COVID, MVM-ADAPT (Adaptive Mechanical Ventilator Milano under Uncertainty) 2020-21 **(role: participant)**
- WATCHMAN (Workload-reduction mAchine vision-based TeChnology Hub for MANufacturing), funded by the Lombardy Region Call hub Research & Innovation, 2020-2022, URL: <https://www.intellimech.it/progetto-watchman/> **(role: participant)**

EXPERIENCE

Assistant professor

Università degli Studi di Bergamo [01/2009 – 09/2017]

Research Projects (role: participant)

EU projects:

- *ESCUDO-CLOUD* (Enforceable Security in the Cloud to Uphold Data Ownership), H2020-ICT-2014, 2015–2017.
- *PoSecco* (Policy and Security Configuration Management), FP7-ICT, 2010–2013.
<https://cordis.europa.eu/project/id/257129>
- *BRICS* (Best Practice in Robotics), EU FP7 large-scale integrating project, 2009–2013.
<https://cordis.europa.eu/project/id/231940>

National and industrial projects:

- *GenData 2020* (Data-Centric Genomic Computing), PRIN, 2013–2016.
<https://gendata.weebly.com/>
- *D-ASAP* (Dependable Adaptable Software Architectures for Pervasive Computing), PRIN, 2008–2010.
<https://cercauniversita.cineca.it/php5/prin/cerca.php?codice=2007XKEHFA>
- *Smart Break* (Smart Bialetti REstoration Adaptive Kit), collaborative industrial project with Lombardy Region, 2013–2015.
<http://www.smartbreakproject.it>

Research Fellow

Università degli Studi di Milano, Department of Information Technologies [10/2006 – 12/2008]

- Main research project on Intelligent systems and global communication infrastructures: “Sistemi Intelligenti e infrastruttura di comunicazione globale per la società dell’informazione e della conoscenza” (Supervisor: Prof. N. Scarabattolo)
- Industry–academia project with STMicroelectronics AST R&I (Agrate Brianza) on model-driven design of embedded systems (UML, ASM, SystemC), led by Prof. E. Riccobene **(role: participant)**

EDUCATION AND TRAINING

PhD in Computer Science (cycle XVIII)

Università degli Studi di Catania – Italy [17 Marzo 2006]

Dissertation title: “Model-driven Language Definition: metamodelling methodologies and applications”

M.Sc. in Computer Science

Università degli Studi di Catania – Italy [26 Luglio 2002]

Dissertation title: “Un Ambiente per la Validazione di Modelli UML” (“An environment for UML model validation”)

TEACHING

Teaching courses

- University courses on programming languages, software architecture and algorithms design, and operating systems.

MAIN RESEARCH SERVICES AND ORGANISATIONAL SKILLS

- Main services and roles in scientific conferences/workshops
<https://conf.researchr.org/profile/patriziascandurra>
- Member of the Editorial Board of *Journal of Systems and Software*, Elsevier
[https://doi.org/10.1016/S0164-1212\(25\)00374-7](https://doi.org/10.1016/S0164-1212(25)00374-7)
- Associate Editor for IoT Computing Paradigms of *Frontiers in the Internet of Things*
<https://loop.frontiersin.org/people/2209439/overview>

PUBLICATIONS

Co-author of more than 150 peer-reviewed papers published on international journals and in the proceedings of international conferences/workshops.

Publication list available at the faculty web link:

<https://unibg.unifind.cineca.it/individual?uri=http%3A%2F%2Firis.unibg.it%2Fresource%2Fperson%2F1502>

DBLP: <https://dblp.org/pid/38/5263.html>

From Google Scholar (Jan 2026): h-index 26 with more than 2922 citations.

According to law 679/2016 of the Regulation of the European Parliament of 27th April 2016, I hereby express my consent to process and use my data provided in this CV