

Patrizia Scandurra
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Short curriculum vitae (*last update February 2021*)

CONTACT INFO

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BRIEF PROFESSIONAL BIOGRAPHY

Patrizia Scandurra is Associate Professor at the Dept. of Management, Information and Production Engineering of the University of Bergamo (Italy). Previously, she was Assistant Professor at the University of Bergamo (2009-2017) and research fellow at the University of Milan (2006-2008). She obtained a degree (2002) and a PhD in Computer Science (2006) at the University of Catania. Her research interests are in software engineering with particular attention to software architectures and formal methods for software modeling, validation, verification and testing. Recently her research focus is the design and runtime analysis of self-adaptive, autonomous and uncertain distributed cyber-physical systems. She regularly publishes the results of her research in international conferences and ranked journals. She is a member of the program committees of international conferences of formal methods, software architectures and self-adaptive software systems, such as ABZ, ECSA and SEAMS @ ICSE. She has been a member of the organizing committees of international conferences / workshops, including SA-TTA @ SAC, ECSA and FAACS @ ECSA. She has been involved in several national and European projects on themes such as model-driven development for embedded and robotic systems, adaptive software architectures for pervasive systems, and enforceable trust in Cloud-based software applications. She also collaborates with R&I (research and innovation) groups of industries/organizations like STMicroelectronics, Atego, Bialelli, and ENEA Smart Cities & Communities lab.

TEACHING

She teaches the courses "Informatica II" (first level degree in Computer Science Engineering), "Informatica III" (second level degree in Computer Science Engineering) and "Informatica" (first level degree in Management Engineering) at the University of Bergamo. Main subjects of these courses are programming languages, software design and operating systems.

RESEARCH

Her main research interests are in: (i) Formal methods for Software Engineering, especially specification, design, validation, verification, and testing of software systems; (ii) Formal methods for (self-)adaptive dependable IT systems; (iii) Model-driven software engineering, and the application of the theories, approaches and techniques specific to the above research areas to service-oriented and component-based distributed systems, self-adaptive systems, IoT-Cloud based systems, embedded systems and cyber-physical systems.

PUBLICATIONS She has published more than 80 peer-reviewed papers on international journals and in the proceedings of international conferences/symposia. At February 2021, according to Google Scholar, she holds h-index 21 with more than 1849 citations of the works that

she has co-authored; according to Scopus, she holds h-index 16 with more than 880 citations. She received three best paper awards (ICSEA 2009, FDL 2007, FDL 2008).

PARTICIPATION IN RESEARCH PROJECTS

European projects

- MOSAICrOWN (Multi-Owner data Sharing for Analytics and Integration respecting Confidentiality and Owner control), H2020, 1/1/2019-31/12/2021
- ESCUDO-CLOUD (Enforceable Security in the Cloud to Uphold Data Ownership) H2020-ICT-2014
- FP7 PoSecco: Policy and Security Configuration management (IP, FP7, ICT)
- BRICS (Best Practice in Robotics), EU-FP7 large-scale integrating project 2009-2013

National projects

- WATCHMAN (Workload-reduction mACHine vision-based TeCHnology Hub for MANufacturing), funded by the Lombardy Region Call hub Research & Innovation (2020-2022)
- *GenData* 2020 (Data-Centric Genomic Computing) (PRIN 2013-2016),
- *D-ASAP* (Dependable Adaptable Software Architectures for Pervasive Computing) (PRIN 2008- 2010)
- Collaborative Industrial/Lombardy Region project Smart Break (Smart Bialetti REstoration Adaptive Kit) 2013-2014 <http://www.smartbreakproject.it>
- Joint industry/university project between STMicroelectronics AST R&I of Agrate Brianza (MI) and University of Milan "Metodologie e tecniche model-driven per la progettazione e l'analisi di sistemi embedded tramite UML, ASM e SystemC" (2006-2008)
- Joint industry/university project between STMicroelectronics AST R&I of Agrate Brianza (MI) and University of Catania "Tecniche e metodologie di PROGETTO, DOCUMENTAZIONE, VERIFICA e VALIDAZIONE per i sistemi di IP (2003-2006)

MAIN ACTIVITIES AND SUPERVISOR EXPERIENCE AT THE UNIVERSITY OF BERGAMO

- Member of the PhD Admission Committee in *Engineering and Applied Science* (2020)
- Member (2014-present) of the Joint Committee Teachers-Students (CPDS) for the evaluation of the quality of the Study Programs (CdS) and of the services provided to the students
- Member of the Commission for the CISIA TOLC admission tests to access the Italian university degree courses (2017-present)
- Member for the Evaluation Committee of State Exams for the Qualification to the Engineering Profession (2014)
- Advisors of PhD and post-doc students in Computer Science Engineering at the University of Bergamo (2011-present)
- Advisor of several undergraduate and Master students in Computer Science Engineering at University of Bergamo (2009-present)
- She has been a member of several commissions for the assignment and evaluation of research grants activity (2009-present)

EVALUATOR

She has been evaluator of *project proposals* for the following programmes: Research Foundation Flanders in Belgium (2017-2018), Research Council KU Leuven in Belgium (2017), Italian FIRB "Futuro in Ricerca 2012" (2012), and Polimi international fellowships (edition 2015).

She has been Doctoral external reviewer of the following PhD thesis: Carlos Laorden, Gómez, *Semantic-aware unsolicited e-mail filtering with reduction of labelling efforts*, University of Deusto, 2012; Javier Nieves Acedo, *A New Approach to Improve Manufacturing Processes using Hybrid and Auto-adaptive Model Predictive Control Systems*, University of Deusto, 2012.

She has been external evaluator of candidates for *Deputy Assistant Professor* in Computer Science at the Linnaeus University (2021).