

FRANCESCA ARCELLI FONTANA

SHORT CV

Current Position: Associate Professor of Computer Science (09/H1 research area) at University of Milano Bicocca, Italy.

She had her degree and Ph.D. in Computer Science taken at the University of Milano (Italy), Master degree Thesis with Prof. Alberto Bertoni and Ph.D. thesis with Prof. Dale Miller (University of Pennsylvania) on "Higher order and meta-level aspects of logic programming".

Current Research Interests

Her current scientific interests are principally in the following areas:

- software engineering;
- software quality assessment;
- software architecture assessment,
- managing technical debt in software engineering,
- software evolution and reverse engineering.

She created in 2006 and is the head of the Research **Laboratory on Evolution of Software Systems and Reverse Engineering** (ESSeRE Lab) at University of Milano Bicocca: <http://essere.disco.unimib.it/wiki/>

Research collaborations with Universities or Research Institutions:

- Paris Avgeriou, University of Groningen, Holland, on managing architectural debt.
- Bartosz Walter, Poznan University, Poland, on empirical analysis on design flaws correlations.
- Apostolos Ampatzoglou, University of Macedonia, Greece: managing technical debt.
- Fabio Palomba, ETH, Switzerland: machine Learning techniques for software quality assessment.
- Antonio Martini, University of Oslo, Norway: Arcan tool evaluation for architectural smell detection in an industrial context.
- Damian Tamburri, Jheronimus Academy of Data Science - TU Eindhoven: correlations analysis between architectural smells and concurrency bugs.
- Jens Dietrich, Massey University, New Zealand, on the definition of a catalogue and categorization of code smell and anti-pattern false positive instances
- Aiko Yamashita, Oslo University, Norway, on code smells correlations through the analysis of industrial case studies

Current Research collaborations with enterprises:

- CAST, software architecture and Technical Debt Index evaluation
- ALTEN spa, software quality assessment for Managing Technical Debt.

She has been reviewer of different Projects of National Interest (PRIN) for the Italian Ministry of Education, University and Research (MIUR) and reviewer of European research projects (IP) and European network of excellence (NOE) in the area of software engineering.

She is a member of the **PhD School of Computer Science** of the Department of Computer Science (DISCo) since 2006. She is currently a **Co-supervisor of the PhD** student Darius Sas at University of Groningen with Prof. Paris Avgeriou on "Software Development toolKit for Energy optimization and technical Debt elimination".

Associate Editor/Guest Editor

- Associate Editor of Software Quality Journal, Springer, indexed in Scopus and WoS. <http://www.springer.com/computer/swe/journal/11219?detailsPage=editorialBoard>
- Associate Editor of e-Informatika Software Engineering Journal, indexed in Scopus and WoS. <http://www.e-informatyka.pl/index.php/einformatika/editorial-board/>
- Guest Editor: Co-guest Editor of a future special issue (2018) for the Journal of Systems and Software (JSS) edited by Elsevier on "Model Driven Engineering and Reverse Engineering: Research and Practice" with Hugo Brunelliere, Hausi Muller, Claudia Raibulet.
- Guest Editor: Co-guest Editor of a future special issue for the Journal of Software: Evolution and Process (JSEP), edited by Wiley on "Machine Learning Techniques for Software Quality Evaluation" with Apostolos Ampatzoglou, Bartosz Walter, Fabio Palomba.

Francesca Arcelli is the co-author of over 120 papers peer reviewed and published in international journals and proceeding of international workshops and conferences.

Partial list of publications:

https://dblp.uni-trier.de/pers/hd/f/Fontana:Francesca_Arcelli

<https://scholar.google.it/citations?user=8Z20aIMAAAAJ&hl=it>

<http://orcid.org/0000-0002-1195-530X>

Francesca Arcelli regularly teaches courses on software engineering, software analysis and design, software evolution and reverse engineering.

She is the **Erasmus Coordinator** for the Department of Computer Science (DISCo) and member of the Internationalization Commission of the University of Milano Bicocca.