

Fabio Calefato

📍 Bari, Italy | ✉ fabio.calefato@uniba.it | ☎ 080 571 2213 | 🌐 collab.di.uniba.it/fabio
 🆔 0000-0003-2654-1588 | 📄 Google Scholar | 🌐 bateman

Current Position

- Associate Professor**, University of Bari, Dept. of Computer Science – Bari, Italy Nov 2022 – present
- Holds the national habilitation as Full Professor since Dec 2023
- Co-founder and CEO**, PeopwareAI s.r.l. – Bari, Italy Feb 2021 – present
- PeopwareAI 🌐 is a spin-off company of the University of Bari, founded to transfer the results of research in the field of AI and software engineering to the market

Education

- University of Bari, Italy, PhD in Computer Science** Jan 2004 – May 2007
- Thesis: “Supporting Synchronous Communication in Distributed Software Teams”
 - Thesis listed among the SIGSOFT Selected Ph.D. Dissertations in the Area of Software Engineering
- University of Bari, Italy, MSc in Computer Science** Sept 1996 – Oct 2002
- Thesis: “P2P Conferences in JXTA”
 - Graduation grade: 110/110 with honors

Experience

- Tenure-track Assistant Professor**, University of Bari, Dept. of Computer Science – Bari, Italy Nov 2019 – Nov 2022
- Untenured Assistant Professor**, University of Bari, Jonian Dept. – Taranto, Italy Nov 2015 – Nov 2019
- Postdoctoral Research Fellow**, University of Bari, Dept. of Computer Science – Bari, Italy July 2013 – July 2015
- Postdoctoral Research Fellow**, University of Bari, Dept. of Computer Science – Bari, Italy Apr 2010 – Mar 2013
- Postdoctoral Research Fellow**, University of Bari, Dept. of Computer Science – Bari, Italy Apr 2007 – Nov 2008

Bibliometrics

Google Scholar: *h*-index 30, 3,100+ citations
Scopus: *h*-index 21, 1,500+ citations

Publications

- A Multivocal Literature Review on the Benefits and Limitations of Automated Machine Learning Tools** Feb 2025
 L. Quaranta, K. Azevedo, **F. Calefato**, M. Kalinowski
 Information and Software Technology, vol. 178, no. 107608, doi: 10.1016/j.infsof.2024.107608 🌐
- Pynblint: A Quality Assurance Tool to Improve the Quality of Python Jupyter Notebooks** 2024
 L. Quaranta, **F. Calefato**, F. Lanubile
 SoftwareX, vol. 28, no. 101959, doi: 10.1016/j.softx.2024.101959 🌐
- A Lot of Talk and a Badge: An Exploratory Analysis of Personal Achievements in GitHub** Dec 2024
F. Calefato, L. Quaranta, F. Lanubile
 Information and Software Technology (IST), vol. 176, no. 107561, doi: 10.1016/j.infsof.2024.107561 🌐
- Generative AI in Software Engineering Must Be Human-Centered: The Copenhagen Manifesto** Oct 2024
 D. Russo, et al.

Events Organization

Program Co-Chair

- 40th Int'l Conf. on Software Maintenance and Evolution (ICSME'24), Flagstaff, AZ, USA, Oct 2024
- 16th Int'l Conf. on Cooperative and Human Aspects of Software Engineering (CHASE'23), Melbourne, Australia, May 2023
- 8th Int'l Workshop on Social Software Engineering (SSE'16), Seattle, WA, USA, Nov 14, 2016 – co-located with FSE'16
- 1st Int'l Workshop on Trust in Virtual Teams: Theory and Tools, San Antonio, TX, USA, Feb 24, 2013 – co-located with CSCW'13

General Chair

- 14th International Conference on Global Software Engineering (ICGSE'19), Montreal, Canada, 25-26 May 2018

Steering Board Member

- Int'l Conf. on Global Software Engineering (ICGSE), 2019-2022

Track Co-Chair

- 43th Int'l Conf. on Software Engineering (ICSE'21), Student Contest on Software Engineering (SCORE) track, Madrid, Spain, May 2021

Workshops & Tutorials Co-Chair

- 23rd Int'l Conf. on Product-Focused Software Process Improvement (PROFES'23), Jyväskylä, Finland, 21-23 November 2022

Workshops Co-Chair

- 10th Int'l Conf. on Global Software Engineering (ICGSE'15), Ciudad Real, Spain, 13-16 July 2015

Open-science Co-Chair

- 15th Int'l Symposium on Empirical Software Engineering and Measurement (ESEM'21), Bari, Italy, 11-15 Oct 2021
- 14th Int'l Symposium on Empirical Software Engineering and Measurement (ESEM'20), Bari, Italy, 5-9 Oct 2020

Publicity & Social Media Chair

- 21st Int'l Conf. on Agile Software Development (XP'20), Copenhagen, Denmark, 8-12 June 2020
- 13th Int'l Conf. on Global Software Engineering (ICGSE'18), Gothenburg, Sweden, 28-29 May 2018
- 8th Int'l Conf. on Global Software Engineering (ICGSE'13), Bari, Italy, 26-29 Aug 2013

Editorial Activities

Associate Editor

- Elsevier 'Journal of Systems and Software' (JSS), rank: SJR Q1
- Springer 'Automated Software Engineering' (ASE)

Guest Editor

- 2024 Springer 'Empirical Software Engineering' (EMSE), rank: SJR Q1. Special Issue on "Software Maintenance and Evolution." Co-editor: Sarah Nadi (New York University, Abu Dhabi)
- 2023: Springer 'Empirical Software Engineering' (EMSE), rank: SJR Q1. Special Issue on "Cooperative and Human Aspects of Software Engineering" [↗](#). Co-editors: Hourieh Khalajzadeh (Deakin University, Australia) and Igor Steinmacher (NAU, USA)
- 2021: Elsevier 'Journal of System and Software' (JSS), rank: SJR Q1. Special Issue on "Global Software Engineering: Challenges and Solutions." [↗](#) Vol. 174, Apr. 2021. Co-editors: Alpina Dubey (Accenture Labs, India), Christof Ebert (Vector Consulting, Germany), Paolo Tell (IT University of Copenhagen, Denmark)

Review Board Member

- 2023 – present: Replicated Computational Results Distinguished Reviewers Board for ACM 'Transactions on Software Engineering and Methodology' (TOSEM), rank: SJR Q1
- 2020 – 2022: ACM 'Transactions on Software Engineering and Methodology' (TOSEM), rank: SJR Q1

- 2015 – 2019: *Springer Journal of Empirical Software Engineering* (EMSE, SJR Q1), rank: SJR Q1

Peer Reviews (partial list) – verified record on Clarivate

- (23) *Springer Journal of Empirical Software Engineering* (EMSE), rank: SJR Q1
- (19) *IEEE Transactions on Software Engineering* (TSE), rank: SJR Q1
- (16) *ACM Transactions on Software Engineering and Methodology* (TOSEM), rank: SJR Q1
- (12) *Elsevier Journal of System and Software* (JSS), rank: SJR Q1
- (8) *Elsevier Information and Software Technology* (INFOSOF), rank: SJR Q1
- (7) *Wiley Journal of Software: Evolution and Process* (JSEP), rank: SJR Q2
- (5) *IEEE Software*, rank: SJR Q2
- (2) *IEEE Transactions on Affective Computing*, rank: SJR Q1
- (1) *ACM Transactions on Internet Technologies* (TOIT), rank: SJR Q1

Institutional Services

Rector's Delegate for the GARR Network

- May 2023 - present: *The GARR Consortium is the Italian national research and education network, providing high-speed Internet connectivity and advanced services to universities and research institutions.*

CS Dept. Director's Delegate for Internship Programs

- Mar 2023 - present: *Responsibilities include overseeing the development and implementation of internship programs, coordinating with industry partners, mentoring students, ensuring compliance with academic standards, and evaluating the effectiveness of the internship experiences.*

Ph.D. Students Supervision

Kelly Azevedo Borges Leal – Pontifical Catholic University of Rio de Janeiro (PUR-Rio), Brazil July 2023 – present

- *Topic: AutoML for Software Engineering*
- *Co-supervised with prof. Co-supervised with prof. Marcos Kalinowski*

Luigi Quaranta – University of Bari, Italy Nov 2022

- *Thesis: "Collaboration Around Computational Notebooks To Build AI-enabled Systems"*
- *Co-supervised with prof. Filippo Lanubile*

Giuseppe Iaffaldano – University of Bari, Italy Feb 2020

- *Thesis: "Investigating the Dynamics of Online Creative Communities"*
- *Co-supervised with prof. Filippo Lanubile*

Membership in Doctoral Boards

Ph.D. program in Computer Science and Mathematics (XL cycle) – University of Bari, Italy 2024 – 2025

Ph.D. program in Computer Science and Mathematics (XXXIX cycle) – University of Bari, Italy 2023 – 2024

Ph.D. program in Computer Science and Mathematics (XXXVIII cycle) – University of Bari, Italy 2022 – 2023

Interuniversity Ph.D. program in Aerospace Engineering and Sciences (XXXVII cycle) – Polytechnic University of Bari, Italy 2021 – 2022

Interuniversity Ph.D. program in Aerospace Engineering and Sciences (XXXVI cycle) – Polytechnic University of Bari, Italy 2020 – 2021

Teaching

Reti di Calcolatori (Computer Networks) [6 ECTS], BSc in Computer Science and Software Production Technologies (ITPS), 2nd year in University of Bari, Dept. of Computer Science – Bari, Italy 2019 – 2025

Social Computing [6 ECTS], MSc in Computer Science, 1st year in University of Bari, Dept. of Computer Science – Bari, Italy 2021 – 2024

Software Solutions for Reproducible Experiments [2 ECTS] , Ph.D. program in Computer Science and Mathematics (XXXVIII cycle) in University of Bari, Dept. of Computer Science – Bari, Italy	2022 – 2023
Social Computing [5 ECTS] , MSc in Computer Science and Engineering???, University of Oulu – Oulu, Finland	2022 – 2023
Reti di Calcolatori (Computer Networks) [9 ECTS] , BSc in Computer Science, 3rd year in University of Bari, Dept. of Computer Science – Bari, Italy	2018 – 2019
Mining Socio-technical Repositories [3 ECTS] , Ph.D. program in Computer Science and Mathematics (XXXIII cycle), University of Bari, Dept. of Computer Science – Bari, Italy	2017 – 2018
IT Tools Supporting Legal and Economic Research: Blockchain for Tracking Production and Transportation Chains [2 ECTS] , Ph.D. program in Rights, Economies, and Cultures of the Mediterranean (XXXIII cycle), University of Bari, Jonian Dept. (Law and Business School) – Taranto, Italy	2017 – 2018
Classification Models in Software Engineering [2 ECTS] , Ph.D. program in Computer Science, University of Oulu – Oulu, Finland	2016 – 2017
Emotion Awareness in Social Computing [2 ECTS] , Ph.D. program in Computer Science and Mathematics (XXXII cycle), University of Bari, Dept. of Computer Science – Oulu, Finland	2016 – 2017
• Co-taught with Prof. Nicole Novielli	
IT Tools Supporting Legal and Economic Research [2 ECTS] , Ph.D. program in Rights, Economies, and Cultures of the Mediterranean (XXXII cycle), University of Bari, Jonian Dept. (Law and Business School) – Taranto, Italy	2016 – 2017
Informatica (Computer Science) [9 ECTS] , BSc in Maritime Sciences and Management (SGAM), 2nd year – Italian Navy Petty Officers School (Mariscuola), Taranto, Italy, University of Bari, Dept. of Computer Science	2015 – 2020
Abilità Informatica (Computer Skills) [4 ECTS] , Bachelor of Law, 1st year, University of Bari, Jonian Dept. (Law and Business School) – Taranto, Italy	2015 – 2020
Laboratorio di Informatica (C Programming Lab) [9 ECTS] , BSc in Computer Science and Software Production Technologies (ITPS), 1st year, University of Bari, Dept. of Computer Science – Bari, Italy	2014 – 2015
Linguaggi di Programmazione + Laboratorio (Programming Languages + Lab) [12 ECTS] , BSc in Computer Science, 1st year, University of Bari, Dept. of Computer Science – Brindisi, Italy	2014 – 2015
Laboratorio di Informatica (C Programming Lab) [5/6 ECTS] , BSc in Computer Science, 1st year, University of Bari, Dept. of Computer Science – Brindis, Italy	2008 – 2013

Invited Seminars

Collaboration in Software Engineering: 10 Years in Review – Carnegie Mellon University, USA	Oct 2017
Classification Models in Software Engineering: From Defect to Best-Answer Prediction – University of Victoria, Canada	Nov 2016

Software

EMTk (Emotion-Mining Toolkit)	EMTk on GitHub 🔗
<ul style="list-style-type: none"> • EmoTxt is the module for training custom emotion classifiers from text. It provides out of the box an emotion classifier specifically tuned for mining emotion from developers' communication channels, such as Stack Overflow. • Senti4SD is the module for emotion-polarity classification (sentiment analysis) specifically trained on technical corpora from developers' communication channels, such as GitHub and StackOverflow. 	