

# Fabio Calefato

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## 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 industry-leading AutoML tools** 2025
- L. Quaranta, K. Azevedo, **F. Calefato**, M. Kalinowski  
 Inf. Softw. Technol., vol. 178, doi: 10.1016/J.INFSOF.2024.107608 🌐
- A lot of talk and a badge: An exploratory analysis of personal achievements in GitHub** 2024
- F. Calefato**, L. Quaranta, F. Lanubile  
 Inf. Softw. Technol., vol. 176, doi: 10.1016/J.INFSOF.2024.107561 🌐
- Generative AI in Software Engineering Must Be Human-Centered: The Copenhagen Manifesto** 2024
- D. Russo, S. Baltes, N. Berkel, P. Avgeriou, **F. Calefato**, B. Cabrero-Daniel, G. Catolino, J. Cito, N. Ernst, T. Fritz, H. Hata, R. Holmes, M. Izadi, F. Khomh, M. Kjærgaard, G. Liebel, A. Lluch-Lafuente, S. Lambiase, W. Maalej, G. Murphy, N. Moe, G. O'Brien, E. Paja, M. Pezzè, J. Persson, R. Prikładnicki, P. Ralph, M. Robillard, T. Silva, K.J. Stol, M.A. Storey, V. Stray, P. Tell, C. Treude, B. Vasilescu

J. Syst. Softw., vol. 216, doi: 10.1016/J.JSS.2024.112115 [↗](#)

**Pynblint: A quality assurance tool to improve the quality of Python Jupyter notebooks** 2024

L. Quaranta, *F. Calefato*, F. Lanubile

SoftwareX, vol. 28, doi: 10.1016/J.SOFTX.2024.101959 [↗](#)

**Continuous Quality Improvement of AI-based Systems: the QualAI Project** 2024

N. Novielli, R. Oliveto, F. Palomba, *F. Calefato*, G. Colavito, V. Martino, A. Porta, G. Giordano, E. Guglielmi, F. Lanubile, L. Quaranta, G. Recupito, S. Scalabrino, A. Spina, A. Vitale

Proceedings of the 18th ACM/IEEE International Symposium on Empirical Software Engineering and Measurement, ESEM 2024, Barcelona, Spain, October 24-25, 2024, doi: 10.1145/3674805.3695393 [↗](#)

**Professional Insights into Benefits and Limitations of Implementing MLOps Principles** 2024

G. Araujo, M. Kalinowski, M. Endler, *F. Calefato*

Proceedings of the 26th International Conference on Enterprise Information Systems, ICEIS 2024, Angers, France, April 28-30, 2024, Volume 2, doi: 10.5220/0012741100003690 [↗](#)

**Toward Collaboration Optimization in Microservice Projects Based on Developer Personalities** 2024

X. Li, *F. Calefato*, V. Lenarduzzi, D. Taibi

21st IEEE International Conference on Software Architecture, ICSA 2024 - Companion, Hyderabad, India, June 4-8, 2024, doi: 10.1109/ICSA-C63560.2024.00024 [↗](#)

**An MLOps Solution Framework for Transitioning Machine Learning Models into eHealth Systems** 2024

A. Basile, *F. Calefato*, F. Lanubile, G. Mallardi, L. Quaranta

Proceedings of the Ital-IA Intelligenza Artificiale - Thematic Workshops co-located with the 4th CINI National Lab AIIS Conference on Artificial Intelligence (Ital-IA 2024), Naples, Italy, May 29-30, 2024, vol. 3762

**Security Risks and Best Practices of MLOps: A Multivocal Literature Review** 2024

*F. Calefato*, F. Lanubile, L. Quaranta

Proceedings of the 8th Italian Conference on Cyber Security (ITASEC 2024), Salerno, Italy, April 8-12, 2024, vol. 3731

**QualAI: Continuous Quality Improvement of AI-based Systems** 2024

N. Novielli, R. Oliveto, F. Palomba, *F. Calefato*, G. Colavito, V. Martino, A. Porta, G. Giordano, E. Guglielmi, F. Lanubile, L. Quaranta, G. Recupito, S. Scalabrino, A. Spina, A. Vitale

Joint Proceedings of RCIS 2024 Workshops and Research Projects Track co-located with the 18th International Conference on Research Challenges in Information Science (RCIS 2024), Guimaraes, Portugal, May 14-17, 2024, vol. 3674

**Assessing the Use of AutoML for Data-Driven Software Engineering** 2023

*F. Calefato*, L. Quaranta, F. Lanubile, M. Kalinowski

ACM/IEEE International Symposium on Empirical Software Engineering and Measurement, ESEM 2023, New Orleans, LA, USA, October 26-27, 2023, doi: 10.1109/ESEM56168.2023.10304796 [↗](#)

**Will you come back to contribute? Investigating the inactivity of OSS core developers in GitHub** 2022

*F. Calefato*, M. Gerosa, G. Iaffaldano, F. Lanubile, I. Steinmacher

Empir. Softw. Eng., vol. 27, no. 3, doi: 10.1007/S10664-021-10012-6 [↗](#)

**Eliciting Best Practices for Collaboration with Computational Notebooks** 2022

L. Quaranta, *F. Calefato*, F. Lanubile

Proc. ACM Hum. Comput. Interact., vol. 6, no. {CSCW1}, doi: 10.1145/3512934 [↗](#)

**Using Personality Detection Tools for Software Engineering Research: How Far Can We Go?** 2022

*F. Calefato*, F. Lanubile

ACM Trans. Softw. Eng. Methodol., vol. 31, no. 3, doi: 10.1145/3491039 [↗](#)

- What Makes Agile Software Development Agile?** 2022  
M. Kuhrmann, P. Tell, R. Hebig, J. Klünder, J. Münch, O. Linssen, D. Pfahl, M. Felderer, C. Prause, S. MacDonell, J. Nakatumba-Nabende, D. Raffo, S. Beecham, E. Tüzün, G. López, N. Paez, D. Fontdevila, S. Licorish, S. Küpper, G. Ruhe, E. Knauss, Ö. Özcan-Top, P. Clarke, F. McCaffery, M. Genero, A. Vizcaíno, M. Piattini, M. Kalinowski, T. Conte, R. Prikladnicki, S. Krusche, A. Coskunçay, E. Scott, **F. Calefato**, S. Pimonova, R.H. Pfeiffer, U. Schultz, R. Heldal, M. Fazal-Baqaie, C. Anslow, M. Nayebi, K. Schneider, S. Sauer, D. Winkler, S. Biffl, M. Bastarrica, I. Richardson  
IEEE Trans. Software Eng., vol. 48, no. 9, doi: 10.1109/TSE.2021.3099532 [🔗](#)
- Pynblint: a static analyzer for Python Jupyter notebooks** 2022  
L. Quaranta, **F. Calefato**, F. Lanubile  
Proceedings of the 1st International Conference on AI Engineering: Software Engineering for AI, CAIN 2022, Pittsburgh, Pennsylvania, May 16-17, 2022, doi: 10.1145/3522664.3528612 [🔗](#)
- A Preliminary Investigation of MLOps Practices in GitHub** 2022  
**F. Calefato**, F. Lanubile, L. Quaranta  
ESEM '22: ACM / IEEE International Symposium on Empirical Software Engineering and Measurement, Helsinki, Finland, September 19 - 23, 2022, doi: 10.1145/3544902.3546636 [🔗](#)
- Assessment of off-the-shelf SE-specific sentiment analysis tools: An extended replication study** 2021  
N. Novielli, **F. Calefato**, F. Lanubile, A. Serebrenik  
Empir. Softw. Eng., vol. 26, no. 4, doi: 10.1007/S10664-021-09960-W [🔗](#)
- Global Software Engineering: Challenges and solutions** 2021  
**F. Calefato**, A. Dubey, C. Ebert, P. Tell  
J. Syst. Softw., vol. 174, doi: 10.1016/J.JSS.2020.110887 [🔗](#)
- An In-Depth Analysis of Occasional and Recurring Collaborations in Online Music Co-creation** 2021  
**F. Calefato**, G. Iaffaldano, L. Trisolini, F. Lanubile  
ACM Trans. Soc. Comput., vol. 4, no. 4, doi: 10.1145/3493800 [🔗](#)
- A Taxonomy of Tools for Reproducible Machine Learning Experiments** 2021  
L. Quaranta, **F. Calefato**, F. Lanubile  
AIXIA 2021 Discussion Papers co-located with the the 20th International Conference of the Italian Association for Artificial Intelligence (AIXIA2021), Virtual Event, December 1st-3rd, 2021, vol. 3078
- A Virtual Mentor to Support Question-Writing on Stack Overflow** 2021  
N. Novielli, **F. Calefato**, F. Laurentiis, L. Minervini, F. Lanubile  
14th IEEE/ACM International Workshop on Cooperative and Human Aspects of Software Engineering, CHASE@ICSE 2021, Madrid, Spain, May 20-21, 2021, doi: 10.1109/CHASE52884.2021.00027 [🔗](#)
- Towards Productizing AI/ML Models: An Industry Perspective from Data Scientists** 2021  
F. Lanubile, **F. Calefato**, L. Quaranta, M. Amoroso, F. Fumarola, M. Filannino  
1st IEEE/ACM Workshop on AI Engineering - Software Engineering for AI, WAIN@ICSE 2021, Madrid, Spain, May 30-31, 2021, doi: 10.1109/WAIN52551.2021.00027 [🔗](#)
- KGTorrent: A Dataset of Python Jupyter Notebooks from Kaggle** 2021  
L. Quaranta, **F. Calefato**, F. Lanubile  
18th IEEE/ACM International Conference on Mining Software Repositories, MSR 2021, Madrid, Spain, May 17-19, 2021, doi: 10.1109/MSR52588.2021.00072 [🔗](#)
- collab-uniba/KGTorrent: First release (v. 1.0.0) of KGTorrent (Version v1.0.0)** 2021  
L. Quaranta, **F. Calefato**, F. Lanubile  
10.5281/ZENODO.4472990 [🔗](#)
- KGTorrent: A Dataset of Python Jupyter Notebooks from Kaggle (Version 1.0.0)** 2021  
L. Quaranta, **F. Calefato**, F. Lanubile

10.5281/ZENODO.4468523 [↗](#)

**Love, Joy, Anger, Sadness, Fear, and Surprise: SE Needs Special Kinds of AI: A Case Study on Text Mining and SE** 2020

N. Novielli, *F. Calefato*, F. Lanubile

IEEE Softw., vol. 37, no. 3, doi: 10.1109/MS.2020.2968557 [↗](#)

**A case study on tool support for collaboration in agile development** 2020

*F. Calefato*, A. Giove, F. Lanubile, M. Losavio

ICGSE '20: 15th IEEE/ACM International Conference on Global Software Engineering, Seoul, Republic of Korea, June 26-28, 2020, doi: 10.1145/3372787.3390436 [↗](#)

**Can We Use SE-specific Sentiment Analysis Tools in a Cross-Platform Setting?** 2020

N. Novielli, *F. Calefato*, D. Dongiovanni, D. Girardi, F. Lanubile

MSR '20: 17th International Conference on Mining Software Repositories, Seoul, Republic of Korea, 29-30 June, 2020, doi: 10.1145/3379597.3387446 [↗](#)

**The Impact of Dynamics of Collaborative Software Engineering on Introverts: A Study Protocol** 2020

I. Nunes, C. Treude, *F. Calefato*

MSR '20: 17th International Conference on Mining Software Repositories, Seoul, Republic of Korea, 29-30 June, 2020, doi: 10.1145/3379597.3387505 [↗](#)

**An empirical assessment of best-answer prediction models in technical Q&A sites** 2019

*F. Calefato*, F. Lanubile, N. Novielli

Empir. Softw. Eng., vol. 24, no. 2, doi: 10.1007/S10664-018-9642-5 [↗](#)

**A large-scale, in-depth analysis of developers' personalities in the Apache ecosystem** 2019

*F. Calefato*, F. Lanubile, B. Vasilescu

Inf. Softw. Technol., vol. 114, doi: 10.1016/J.INFSOF.2019.05.012 [↗](#)

**RECODE: revision control for digital images** 2019

*F. Calefato*, G. Castellano, V. Rossano

Multim. Tools Appl., vol. 78, no. 23, doi: 10.1007/S11042-019-7735-9 [↗](#)

**Correction to: RECODE: revision control for digital images** 2019

*F. Calefato*, G. Castellano, V. Rossano

Multim. Tools Appl., vol. 78, no. 23, doi: 10.1007/S11042-019-08458-4 [↗](#)

**Summary of the 14th International Conference on Global Software Engineering (ICGSE)** 2019

*F. Calefato*, P. Tell, A. Dubey

ACM SIGSOFT Softw. Eng. Notes, vol. 44, no. 3, doi: 10.1145/3356773.3356802 [↗](#)

**Agile Collaboration for Distributed Teams [Software Technology]** 2019

*F. Calefato*, C. Ebert

IEEE Softw., vol. 36, no. 1, doi: 10.1109/MS.2018.2874668 [↗](#)

**Why do developers take breaks from contributing to OSS projects?: a preliminary analysis** 2019

G. Iaffaldano, I. Steinmacher, *F. Calefato*, M. Gerosa, F. Lanubile

Proceedings of the 2nd International Workshop on Software Health, SoHeal@ICSE 2019, Montreal, QC, Canada, May 28, 2019

**EMTk: the emotion mining toolkit** 2019

*F. Calefato*, F. Lanubile, N. Novielli, L. Quaranta

Proceedings of the 4th International Workshop on Emotion Awareness in Software Engineering, SEmotion@ICSE 2019, Montreal, QC, Canada, May 28, 2019, doi: 10.1109/SEMOTION.2019.00014 [↗](#)

- Proceedings of the 14th International Conference on Global Software Engineering, ICGSE 2019, Montreal, QC, Canada, May 25-31, 2019** 2019  
*F. Calefato*, P. Tell, A. Dubey  
 IEEE / ACM
- Sentiment Polarity Detection for Software Development** 2018  
*F. Calefato*, F. Lanubile, F. Maiorano, N. Novielli  
 Empir. Softw. Eng., vol. 23, no. 3, doi: 10.1007/S10664-017-9546-9 [↗](#)
- How to ask for technical help? Evidence-based guidelines for writing questions on Stack Overflow** 2018  
*F. Calefato*, F. Lanubile, N. Novielli  
 Inf. Softw. Technol., vol. 94, doi: 10.1016/J.INFSOF.2017.10.009 [↗](#)
- Establishing personal trust-based connections in distributed teams** 2018  
*F. Calefato*, F. Lanubile  
 Internet Technol. Lett., vol. 1, no. 4, doi: 10.1002/ITL2.6 [↗](#)
- Investigating Crowd Creativity in Online Music Communities** 2018  
*F. Calefato*, G. Iaffaldano, F. Lanubile, F. Maiorano  
 Proc. ACM Hum. Comput. Interact., vol. 2, no. {CSCW}, doi: 10.1145/3274296 [↗](#)
- Collaboration Success Factors in an Online Music Community** 2018  
*F. Calefato*, G. Iaffaldano, F. Lanubile  
 Proceedings of the 2018 ACM Conference on Supporting Groupwork, GROUP 2018, Sanibel Island, FL, USA, January 07 - 10, 2018, doi: 10.1145/3148330.3148346 [↗](#)
- On developers' personality in large-scale distributed projects: the case of the apache ecosystem** 2018  
*F. Calefato*, G. Iaffaldano, F. Lanubile, B. Vasilescu  
 Proceedings of the 13th Conference on Global Software Engineering, ICGSE 2018, Gothenburg, Sweden, May 27 - 29, 2018, doi: 10.1145/3196369.3196372 [↗](#)
- Sentiment polarity detection for software development** 2018  
*F. Calefato*, F. Lanubile, F. Maiorano, N. Novielli  
 Proceedings of the 40th International Conference on Software Engineering, ICSE 2018, Gothenburg, Sweden, May 27 - June 03, 2018, doi: 10.1145/3180155.3182519 [↗](#)
- A Revision Control System for Image Editing in Collaborative Multimedia Design** 2018  
*F. Calefato*, G. Castellano, V. Rossano  
 22nd International Conference Information Visualisation, IV 2018, Fisciano, Italy, July 10-13, 2018, doi: 10.1109/IV.2018.00095 [↗](#)
- A gold standard for emotion annotation in stack overflow** 2018  
 N. Novielli, *F. Calefato*, F. Lanubile  
 Proceedings of the 15th International Conference on Mining Software Repositories, MSR 2018, Gothenburg, Sweden, May 28-29, 2018, doi: 10.1145/3196398.3196453 [↗](#)
- Natural language or not (NLON): a package for software engineering text analysis pipeline** 2018  
 M. Mäntylä, *F. Calefato*, M. Claes  
 Proceedings of the 15th International Conference on Mining Software Repositories, MSR 2018, Gothenburg, Sweden, May 28-29, 2018, doi: 10.1145/3196398.3196444 [↗](#)
- EmoTxt: A toolkit for emotion recognition from text** 2017  
*F. Calefato*, F. Lanubile, N. Novielli  
 Seventh International Conference on Affective Computing and Intelligent Interaction Workshops and Demos, ACII Workshops 2017, San Antonio, TX, USA, October 23-26, 2017, doi: 10.1109/ACIIW.2017.8272591 [↗](#)
- A Preliminary Analysis on the Effects of Propensity to Trust in Distributed Software Development** 2017

- F. Calefato*, F. Lanubile, N. Novielli  
12th IEEE International Conference on Global Software Engineering, ICGSE 2017, Buenos Aires, Argentina, May 22-23, 2017, doi: 10.1109/ICGSE.2017.1 [↗](#)
- Mining Communication Data in a Music Community: A Preliminary Analysis** 2017  
*F. Calefato*, G. Iaffaldano, F. Lanubile, A. Lategano, N. Novielli  
Current Trends in Web Engineering - ICWE 2017 International Workshops, Liquid Multi-Device Software and EnWoT, practi-O-web, NLPIT, SoWeMine, Rome, Italy, June 5-8, 2017, Revised Selected Papers, vol. 10544, doi: 10.1007/978-3-319-74433-9\_22 [↗](#)
- A Preliminary Analysis on the Effects of Propensity to Trust in Distributed Software Development** 2017  
*F. Calefato*, F. Lanubile, N. Novielli  
CoRR, vol. abs/1702.04958
- Mining Communication Data in a Music Community: A Preliminary Analysis** 2017  
*F. Calefato*, G. Iaffaldano, F. Lanubile, A. Lategano, N. Novielli  
CoRR, vol. abs/1705.04485
- Assessing the impact of real-time machine translation on multilingual meetings in global software projects** 2016  
*F. Calefato*, F. Lanubile, T. Conte, R. Prikladnicki  
Empir. Softw. Eng., vol. 21, no. 3, doi: 10.1007/S10664-015-9372-X [↗](#)
- A University-NGO partnership to sustain assistive technology projects** 2016  
*F. Calefato*, F. Lanubile, R. Nicolo, F. Lippolis  
Interactions, vol. 23, no. 2, doi: 10.1145/2883619 [↗](#)
- The EmoQuest Project: Emotions in Q&A Sites** 2016  
N. Novielli, *F. Calefato*, F. Lanubile, G. Mininni, A. Taronna  
Proceedings of the International Working Conference on Advanced Visual Interfaces, AVI 2016, Bari, Italy, June 7-10, 2016, doi: 10.1145/2909132.2926062 [↗](#)
- Moving to Stack Overflow: Best-Answer Prediction in Legacy Developer Forums** 2016  
*F. Calefato*, F. Lanubile, N. Novielli  
Proceedings of the 10th ACM/IEEE International Symposium on Empirical Software Engineering and Measurement, ESEM 2016, Ciudad Real, Spain, September 8-9, 2016, doi: 10.1145/2961111.2962585 [↗](#)
- A Hub-and-Spoke Model for Tool Integration in Distributed Development** 2016  
*F. Calefato*, F. Lanubile  
11th IEEE International Conference on Global Software Engineering, ICGSE 2016, Orange County, CA, USA, August 2-5, 2016, doi: 10.1109/ICGSE.2016.12 [↗](#)
- Affective trust as a predictor of successful collaboration in distributed software projects** 2016  
*F. Calefato*, F. Lanubile  
Proceedings of the 1st International Workshop on Emotion Awareness in Software Engineering, SEmotion@ICSE 2016, Austin, Texas, USA, May 14-22, 2016, doi: 10.1145/2897000.2897001 [↗](#)
- Proceedings of the 8th International Workshop on Social Software Engineering, SSE 2016, Seattle, WA, USA, November 14, 2016** 2016  
A. Begel, *F. Calefato*, C. Treude  
ACM, doi: 10.1145/2993283 [↗](#)
- The role of social media in affective trust building in customer-supplier relationships** 2015  
*F. Calefato*, F. Lanubile, N. Novielli  
Electron. Commer. Res., vol. 15, no. 4, doi: 10.1007/S10660-015-9194-3 [↗](#)

- Cost Savings in Global Software Engineering: Where's the Evidence?** 2015  
D. Smite, *F. Calefato*, C. Wohlin  
IEEE Softw., vol. 32, no. 4, doi: 10.1109/MS.2015.102 [↗](#)
- Product Line Engineering for NGO Projects** 2015  
*F. Calefato*, R. Nicolo, F. Lanubile, F. Lippolis  
5th IEEE/ACM International Workshop on Product Line Approaches in Software Engineering, PLEASE 2015, Florence, Italy, May 19, 2015, doi: 10.1109/PLEASE.2015.9 [↗](#)
- Mining Successful Answers in Stack Overflow** 2015  
*F. Calefato*, F. Lanubile, M. Marasciulo, N. Novielli  
12th IEEE/ACM Working Conference on Mining Software Repositories, MSR 2015, Florence, Italy, May 16-17, 2015, doi: 10.1109/MSR.2015.56 [↗](#)
- The challenges of sentiment detection in the social programmer ecosystem** 2015  
N. Novielli, *F. Calefato*, F. Lanubile  
Proceedings of the 7th International Workshop on Social Software Engineering, SSE 2015, Bergamo, Italy, September 1, 2015, doi: 10.1145/2804381.2804387 [↗](#)
- Speech Recognition for Voice-Based Machine Translation** 2014  
T. Duarte, R. Prikladnicki, *F. Calefato*, F. Lanubile  
IEEE Softw., vol. 31, no. 1, doi: 10.1109/MS.2014.14 [↗](#)
- An empirical simulation-based study of real-time speech translation for multilingual global project teams** 2014  
*F. Calefato*, F. Lanubile, R. Prikladnicki, J. Pinto  
2014 ACM-IEEE International Symposium on Empirical Software Engineering and Measurement, ESEM '14, Torino, Italy, September 18-19, 2014, doi: 10.1145/2652524.2652537 [↗](#)
- Investigating the Effect of Social Media on Trust Building in Customer-supplier Relationships** 2014  
*F. Calefato*, F. Lanubile, N. Novielli  
ICEIS 2014 - Proceedings of the 16th International Conference on Enterprise Information Systems, Volume 2, Lisbon, Portugal, 27-30 April, 2014, doi: 10.5220/0004905606350642 [↗](#)
- Mobile Speech Translation for Multilingual Requirements Meetings: A Preliminary Study** 2014  
*F. Calefato*, F. Lanubile, D. Romita, R. Prikladnicki, J. Pinto  
IEEE 9th International Conference on Global Software Engineering, ICGSE 2014, Shanghai, China, 18-21 August, 2014, doi: 10.1109/ICGSE.2014.10 [↗](#)
- Towards discovering the role of emotions in stack overflow** 2014  
N. Novielli, *F. Calefato*, F. Lanubile  
Proceedings of the 6th International Workshop on Social Software Engineering, SSE 2014, Hong Kong, China, November 17, 2014, doi: 10.1145/2661685.2661689 [↗](#)
- Group Awareness in Global Software Engineering** 2013  
F. Lanubile, *F. Calefato*, C. Ebert  
IEEE Softw., vol. 30, no. 2, doi: 10.1109/MS.2013.30 [↗](#)
- A Preliminary Investigation of the Effect of Social Media on Affective Trust in Customer-Supplier Relationships** 2013  
*F. Calefato*, F. Lanubile, N. Novielli  
2013 Humaine Association Conference on Affective Computing and Intelligent Interaction, ACII 2013, Geneva, Switzerland, September 2-5, 2013, doi: 10.1109/ACII.2013.11 [↗](#)
- Trust in virtual teams: theory and tools** 2013  
B. Al-Ani, D. Redmiles, C. Souza, R. Prikladnicki, S. Marczak, F. Lanubile, *F. Calefato*  
Computer Supported Cooperative Work, CSCW 2013, San Antonio, TX, USA, February 23-27, 2013, Companion Volume, doi: 10.1145/2441955.2442029 [↗](#)

- Can social awareness foster trust building in global software teams?** 2013  
*F. Calefato*, F. Lanubile, F. Sportelli  
 Proceedings of the 2013 International Workshop on Social Software Engineering, SSE 2013, Saint Petersburg, Russia, August 18, 2013, doi: 10.1145/2501535.2501538 [↗](#)
- SocialCDE: a social awareness tool for global software teams** 2013  
*F. Calefato*, F. Lanubile  
 Joint Meeting of the European Software Engineering Conference and the ACM SIGSOFT Symposium on the Foundations of Software Engineering, ESEC/FSE'13, Saint Petersburg, Russian Federation, August 18-26, 2013, doi: 10.1145/2491411.2494592 [↗](#)
- Computer-mediated communication to support distributed requirements elicitation and negotiations tasks** 2012  
*F. Calefato*, D. Damian, F. Lanubile  
 Empir. Softw. Eng., vol. 17, no. 6, doi: 10.1007/S10664-011-9179-3 [↗](#)
- Assessing the impact of real-time machine translation on requirements meetings: a replicated experiment** 2012  
*F. Calefato*, F. Lanubile, T. Conte, R. Prikladnicki  
 2012 ACM-IEEE International Symposium on Empirical Software Engineering and Measurement, ESEM '12, Lund, Sweden - September 19 - 20, 2012, doi: 10.1145/2372251.2372299 [↗](#)
- Social Awareness for Global Software Teams** 2012  
*F. Calefato*, F. Lanubile  
 2012 IEEE Seventh International Conference on Global Software Engineering, Porto Alegre, Rio Grande do Sul, Brazil, August 27-30, 2012, doi: 10.1109/ICGSE.2012.31 [↗](#)
- Augmenting social awareness in a collaborative development environment** 2012  
*F. Calefato*, F. Lanubile  
 5th International Workshop on Co-operative and Human Aspects of Software Engineering, CHASE 2012, Zurich, Switzerland, June 2, 2012, doi: 10.1109/CHASE.2012.6223009 [↗](#)
- A Controlled Experiment on the Effects of Machine Translation in Multilingual Requirements Meetings** 2011  
*F. Calefato*, F. Lanubile, R. Prikladnicki  
 6th IEEE International Conference on Global Software Engineering, ICGSE 2011, Helsinki, Finland, August 15-18, 2011, doi: 10.1109/ICGSE.2011.14 [↗](#)
- Communication Media Selection for Remote Interaction of Ad Hoc Groups** 2010  
*F. Calefato*, F. Lanubile  
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- Investigating the use of tags in collaborative development environments: a replicated study** 2010  
*F. Calefato*, D. Gendarmi, F. Lanubile  
 Proceedings of the International Symposium on Empirical Software Engineering and Measurement, ESEM 2010, 16-17 September 2010, Bolzano/Bozen, Italy, doi: 10.1145/1852786.1852818 [↗](#)
- Can Real-Time Machine Translation Overcome Language Barriers in Distributed Requirements Engineering?** 2010  
*F. Calefato*, F. Lanubile, P. Minervini  
 5th IEEE International Conference on Global Software Engineering, ICGSE 2010, Princeton, NJ, USA, 23-26 August, 2010, doi: 10.1109/ICGSE.2010.37 [↗](#)
- Using frameworks to develop a distributed conferencing system: an experience report** 2009  
*F. Calefato*, F. Lanubile  
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- Embedding social networking information into jazz to foster group awareness within distributed teams** 2009  
*F. Calefato*, D. Gendarmi, F. Lanubile



- Proceedings of the 2nd International Workshop on Social Software Engineering and Applications, SoSEA '09, Amsterdam, The Netherlands, August 24, 2009, doi: 10.1145/1595836.1595842 [↗](#)
- Adopting the Eclipse Communication Framework: The Case of eConference** 2008  
*F. Calefato*, M. Scalas  
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- Incorporating social software into distributed agile development environments** 2008  
*F. Abbattista*, *F. Calefato*, D. Gendarmi, F. Lanubile  
 23rd IEEE/ACM International Conference on Automated Software Engineering - Workshop Proceedings (ASE Workshops 2008), 15-16 September 2008, L'Aquila, Italy, doi: 10.1109/ASEW.2008.4686310 [↗](#)
- Evolving a text-based conferencing system: An experience report** 2007  
*F. Calefato*, F. Lanubile, M. Scalas  
 Proceedings of the 3rd International Conference on Collaborative Computing: Networking, Applications and Worksharing, White Plains, New York, USA, November 12-15, 2007, doi: 10.1109/COLCOM.2007.4553869 [↗](#)
- Porting a distributed meeting system to the Eclipse communication framework** 2007  
*F. Calefato*, F. Lanubile, M. Scalas  
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- A Controlled Experiment on the Effects of Synchronicity in Remote Inspection Meetings** 2007  
*F. Calefato*, F. Lanubile, T. Mallardo  
 Proceedings of the First International Symposium on Empirical Software Engineering and Measurement, ESEM 2007, September 20-21, 2007, Madrid, Spain, doi: 10.1109/ESEM.2007.61 [↗](#)
- An Empirical Investigation on Text-Based Communication in Distributed Requirements Workshops** 2007  
*F. Calefato*, D. Damian, F. Lanubile  
 2nd IEEE International Conference on Global Software Engineering, ICGSE 2007, Munich, Germany, 27-30 August, 2007, doi: 10.1109/ICGSE.2007.9 [↗](#)
- Shaping Personal Information Spaces from Collaborative Tagging Systems** 2007  
*F. Abbattista*, *F. Calefato*, D. Gendarmi, F. Lanubile  
 Knowledge-Based Intelligent Information and Engineering Systems, 11th International Conference, KES 2007, XVII Italian Workshop on Neural Networks, Vietri sul Mare, Italy, September 12-14, 2007, Proceedings, Part III, vol. 4694, doi: 10.1007/978-3-540-74829-8\_89 [↗](#)
- Towards Social Semantic Suggestive Tagging** 2007  
*F. Calefato*, D. Gendarmi, F. Lanubile  
 Proceedings of the 4th Italian Semantic Web Workshop, Dipartimento di Informatica - Universita' degli Studi di Bari - Italy, 18-20 December, 2007, vol. 314
- Plugging Presence Awareness into Mozilla Thunderbird** 2006  
*F. Calefato*, F. Lanubile  
 Proceedings of the IASTED International Conference on Internet and Multimedia Systems and Applications, as part of the 24th IASTED International Multi-Conference on Applied Informatics, February 13-15, 2006, Innsbruck, Austria
- An Information Broker for Integrating Heterogeneous Hydrologic Data Sources: A Web Services Approach** 2006  
*F. Calefato*, A. Colagrossi, D. Gendarmi, F. Lanubile, G. Semeraro  
 Research and Practical Issues of Enterprise Information Systems - IFIP TC 8 International Conference on Research and Practical Issues of Enterprise Information Systems (CONFENIS 2006) April 24-26, 2006, Vienna, Austria, vol. 205, doi: 10.1007/0-387-34456-X\_5 [↗](#)

- Function Clone Detection in Web Applications: A Semiautomated Approach** 2004  
**F. Calefato**, F. Lanubile, T. Mallardo  
 J. Web Eng., vol. 3, no. 1
- Assessing the Impact of Active Guidance for Defect Detection: A Replicated Experiment** 2004  
 F. Lanubile, T. Mallardo, **F. Calefato**, C. Denger, M. Grolkowski  
 10th IEEE International Software Metrics Symposium (METRICS 2004), 11-17 September 2004, Chicago, IL, USA, doi: 10.1109/METRIC.2004.1357909 [↗](#)
- Tool support for geographically dispersed inspection teams** 2003  
 F. Lanubile, T. Mallardo, **F. Calefato**  
 Softw. Process. Improv. Pract., vol. 8, no. 4, doi: 10.1002/SPIP.184 [↗](#)

## Events Organization

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### 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



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### 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: Alpana 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

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### 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

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**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

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**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

<b>Interuniversity Ph.D. program in Aerospace Engineering and Sciences (XXXVII cycle)</b> – Polytechnic University of Bari, Italy	2021 – 2022
<b>Interuniversity Ph.D. program in Aerospace Engineering and Sciences (XXXVI cycle)</b> – Polytechnic University of Bari, Italy	2020 – 2021

## Teaching

<b>Reti di Calcolatori (Computer Networks) [6 ECTS]</b> , BSc in Computer Science and Software Production Technologies (ITPS), 2nd year in University of Bari, Dept. of Computer Science – Bari, Italy	2019 – 2025
<b>Social Computing [6 ECTS]</b> , MSc in Computer Science, 1st year in University of Bari, Dept. of Computer Science – Bari, Italy	2021 – 2024
<b>Software Solutions for Reproducible Experiments [2 ECTS]</b> , Ph.D. program in Computer Science and Mathematics (XXXVIII cycle) in University of Bari, Dept. of Computer Science – Bari, Italy	2022 – 2023
<b>Social Computing [5 ECTS]</b> , MSc in Computer Science and Engineering???, University of Oulu – Oulu, Finland	2022 – 2023
<b>Reti di Calcolatori (Computer Networks) [9 ECTS]</b> , BSc in Computer Science, 3rd year in University of Bari, Dept. of Computer Science – Bari, Italy	2018 – 2019
<b>Mining Socio-technical Repositories [3 ECTS]</b> , Ph.D. program in Computer Science and Mathematics (XXXIII cycle), University of Bari, Dept. of Computer Science – Bari, Italy	2017 – 2018
<b>IT Tools Supporting Legal and Economic Research: Blockchain for Tracking Production and Transportation Chains [2 ECTS]</b> , 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
<b>Classification Models in Software Engineering [2 ECTS]</b> , Ph.D. program in Computer Science, University of Oulu – Oulu, Finland	2016 – 2017
<b>Emotion Awareness in Social Computing [2 ECTS]</b> , 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	
<b>IT Tools Supporting Legal and Economic Research [2 ECTS]</b> , 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
<b>Informatica (Computer Science) [9 ECTS]</b> , 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
<b>Abilità Informatica (Computer Skills) [4 ECTS]</b> , Bachelor of Law, 1st year, University of Bari, Jonian Dept. (Law and Business School) – Taranto, Italy	2015 – 2020
<b>Laboratorio di Informatica (C Programming Lab) [9 ECTS]</b> , BSc in Computer Science and Software Production Technologies (ITPS), 1st year, University of Bari, Dept. of Computer Science – Bari, Italy	2014 – 2015
<b>Linguaggi di Programmazione + Laboratorio (Programming Languages + Lab) [12 ECTS]</b> , BSc in Computer Science, 1st year, University of Bari, Dept. of Computer Science – Brindisi, Italy	2014 – 2015
<b>Laboratorio di Informatica (C Programming Lab) [5/6 ECTS]</b> , BSc in Computer Science, 1st year, University of Bari, Dept. of Computer Science – Brindisi, Italy	2008 – 2013

## Invited Seminars

<b>Collaboration in Software Engineering: 10 Years in Review</b> – Carnegie Mellon University, USA	Oct 2017
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## Software

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### EMTk (Emotion-Mining Toolkit)

EMTk on GitHub [↗](#)

- 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.