

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**, PeoplewareAI s.r.l. – Bari, Italy Feb 2021 – present
- PeoplewareAI 🌐 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. Prikladnicki, 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
 Adv. Comput., vol. 78, doi: 10.1016/S0065-2458(10)78006-2 [↗](#)
- 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
 Softw. Pract. Exp., vol. 39, no. 15, doi: 10.1002/SPE.937 [↗](#)
- 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
 Proceedings of the 3rd Italian Workshop on Eclipse Technologies, Eclipse-IT 2008, Bari, Italy, November 17-18, 2008, vol. 436
- 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
 Proceedings of the 2007 OOPSLA workshop on Eclipse Technology eXchange, ETX 2007, Montreal, Quebec, Canada, October 21, 2007, doi: 10.1145/1328279.1328289 [↗](#)
- 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

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: 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

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 – Brindisi, Italy	2008 – 2013

Invited Seminars

Collaboration in Software Engineering: 10 Years in Review – Carnegie Mellon University, USA	Oct 2017
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Software

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.