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 ACM SIGSOFT select 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*

Research 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 Conferecence on Research Challenges in Information Science (RCIS 2024), Guimarães, 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. Amoruso, 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 ↗

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 ☑

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 ↗

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 elicitations 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. Ciolkowski

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 ☒

Success factors for effective knowledge sharing in community-based question-answering 2015

F. Calefato, F. Lanubile, M. Merolla, N. Novielli

Proc. of the International Forum on Knowledge Asset Dynamics (IFKAD 2015), Bari, Italy, Jun. 10-12, 2015

Real-time machine translation for software development teams 2013

R. Prikladnicki, T. Duarte, T. Conte, *F. Calefato*, F. Lanubile, others

Workshop on Software Engineering Innovation Foundation (SEIF'13), Rio de Janeiro, Brazil, Nov. 25–26, 2013

Social media and trust building in virtual teams: The design of a replicated experiment   2013

F. Calefato, F. Lanubile, N. Novielli, others

1st Int'l Workshop on Trust in Virtual Teams: Theory and Tools@CSCW, San Antonio, TX, 23 Feb. 2013

A Social Aggregator for SMEs   2012

F. Calefato, F. Lanubile, N. Novielli

Intersocial Workshop on Online Social Networks: Challenges and Perspectives (IWOSN'12), Patras, Greece, Jun. 15, 2012

Social Awareness as a Trust Building Mechanism in Global Software Teams   2012

F. Calefato, F. Lanubile

CSCW'12 Workshop on The Future of Collaborative Software Development, Seattle, USA, Feb. 12 2012

Practice: Collaborative Development Environments (Chapter 15)   2011

F. Calefato, F. Lanubile

Global Software and IT: A Guide to Distributed Development, Projects, and Outsourcing (C. Ebert, Ed.)

A planning poker tool for supporting collaborative estimation in distributed agile development   2011

F. Calefato, F. Lanubile, others

Proc. 6th Int. Conf. Softw. Eng. Adv.(ICSEA), Barcelona, Spain, 23-28 Oct. 2011

Augmenting social awareness in a collaborative development environment   2011

F. Calefato, F. Lanubile, N. Sanitate, G. Santoro

Proc. of the 4th Int'l Workshop on Social Software Engineering (SSE '11), Szeged, Hungary, 5 Sept 2011, doi: 10.1145/2024645.2024656 ☑

Virtual Worlds, do we really need the third dimension to support collaborative learning   2009

F. Abbattista, *F. Calefato*, A. De Lucia, R. Francese, F. Lanubile, I. Passero, G. Tortora, others

Virtual Worlds for academic, organizational, and life-long learning-ViWo 2009 Workshop-ICWL, Aachen, Germany, 19-21 Aug. 2009

Augmenting a content-based recommender system with tags for cultural heritage personalization   2008

P. Basile, *F. Calefato*, M. Gemmis, P. Lops, G. Semeraro, M. Bux, C. Musto, F. Narducci, others

Personalized Access to Cultural Heritage (PATCH'08), Hannover, Germany, 29 Jul.–1 Aug. 2008

Towards Social Semantic Suggestive Tagging in a Digital Repository of Bookmarks   2007

F. Calefato, D. Gendarmi, F. Lanubile, G. Semeraro, others

2nd DELOS Conference on Digital Libraries, Tirrenia, Italy, 5-7 Dec. 2007

The Evolution of the eConference Project   2007

F. Calefato, F. Lanubile, M. Scalas, others

Proc. Int'l Conf. on Eclipse Technologies (Eclipse-IT 2007), Naples, Italy, 4-5 Oct. 2007

The effects of communication mode on distributed requirements negotiations   2007

T. Mallardo, *F. Calefato*, F. Lanubile, D. Damian

Proceedings of the ICGSE Workshop on Global Requirements Engineering (GREW'07), Munich, Germany, 27-30 Aug. 2007

Using the Econference tool for synchronous distributed requirements workshops   2005

F. Calefato, F. Lanubile

Proc. of the 1st Int'l Workshop on Distributed Software Development (DiSD'05), Paris, France, 29 Aug. 2005

A decentralized conferencing tool for ad hoc distributed workgroups   2004

F. Calefato, F. Lanubile

Proc. ASE Workshop on Cooperative Support for Distributed Software Engineering Processes (CSSE'04), Linz, Austria, 21 Sept. 2004

2004

F. Calefato, F. Lanubile, T. Mallardo

Peer-to-peer remote conferencing, doi: 10.1049/ic:20040310 ☒

Events Organization

Program Co-Chair

- *40th Int'l Conf. on Software Maintenance and Evolution (ICSME'24), Flagstaff, AZ, USA, Oct 2024, iCORE rank: A* ☒
- *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 Int'l Conf. on Global Software Engineering (ICGSE'19), Montreal, Canada, 25-26 May 2018, ICORE rank: C* ☒

Steering Board Member

- *Int'l Conf. on Global Software Engineering (ICGSE), 2019-2022, ICORE rank: C* ☒

Track Co-Chair

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

Workshops & Tutorials Co-Chair

- *23rd Int'l Conf. on Product-Focused Software Process Improvement (PROFES'23), Jyväskylä, Finland, 21-23 November 2022, ICORE rank: B* ☒

Workshops Co-Chair

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

Open-science Co-Chair

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

Publicity & Social Media Chair

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

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' (INFSOF), 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.*

Awards

Best Paper Award: *14th Int'l Conf. on Global Software Engineering (ICGSE'19), Montreal, Canada*

FABBR 2017 Award ⤢: *Winner of the national selection procedure 'Fondo per il finanziamento delle attività base di ricerca (FFABR) 2017,' established by the Italian Ministry of University and Research (MUR) and intended for the annual funding of basic research activities of associate professors and researchers*

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

Keynote Presentations

The Potential and Challenges of Personality Detection in Software Engineering Research – 4th International Workshop on Affective Computing in Requirements Engineering (AffectRE'21), co-located with RE'21	Sept 2021
Facing Communication Challenges in Distributed Software Development – 1st Int'l Workshop on Virtual Teams: Experiences in Global Software Engineering (VirtuES '13), co-located with ICGSE'13	Aug 2016

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

Teaching

Reti di Calcolatori (Computer Networks) [6 ECTS], BSc in Computer Science and Software Production Technologies (ITPS), 2nd year, University of Bari, Dept. of Computer Science – Bari, Italy	2022 – 2025

- *Teaching evaluation scores: 2023-25: N/A; 2022-23: 95.52%*

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

- *Teaching evaluation scores: 2023-24: N/A; 2022-23: 100%; 2021-22: 100%*

Software Solutions for Reproducible Experiments [2 ECTS], Ph.D. program in Computer Science and Mathematics (XXXVIII cycle), 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

- *Course taught as the winner of an EU-funded grant 'Erasmus+ TUCEP Selection Call Mobility for teaching staff' (2022-23), for university professors and researchers mobility*

Reti di Calcolatori (Computer Networks) [9 ECTS], BSc in Computer Science, 3rd year in University of Bari, Dept. of Computer Science – Bari, Italy	2021 – 2022

- *Teaching evaluation scores: 97.07%*

Reti di Calcolatori (Computer Networks) [6 ECTS], BSc in Computer Science and Software Production Technologies (ITPS), 2nd year, University of Bari, Dept. of Computer Science – Bari, Italy	2019 – 2021

- *Teaching evaluation scores: 2020-21: 94.59%; 2019-20: 89.74%*

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

- *Teaching evaluation scores: 93.4%*

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

- *Course taught as the winner of an EU-funded grant 'Erasmus+ TUCEP Selection Call Mobility for teaching staff' (2015-16), for university professors and researchers mobility*

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

- *Teaching evaluation scores: 2019-20: 95.2%; 2018-19: 95.9%; 2017-18: 97.4%; 2016-17: 91.9%; 2015-16: 83.5%*

Abilità Informatica (Computer Skills) [4 ECTS], Bachelor of Law, 1st year, University of Bari, Jonian Dept. (Law and Business School) – Taranto, Italy

2015 – 2020

- *Teaching evaluation scores: 2019-20: 93.1%; 2018-19: 95.9%; 2017-18: 93.8%; 2016-17: 89.8%; 2015-16: 87.8%*

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

2013 – 2015

- *Teaching evaluation scores: 2014-15: 88.3%; 2013-14: 93.1%*

Linguaggi di Programmazione + Laboratorio (Programming Languages + Lab) [12 ECTS], BSc in Computer Science, 1st year, University of Bari, Dept. of Computer Science – Brindisi, Italy

2013 – 2014

- *Teaching evaluation scores: 95.7%*

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

- *Teaching evaluation scores: N/A*

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 StackOveflow.