

# Fabio Palomba, Ph.D.

Curriculum Vitae – 19<sup>th</sup> April, 2021

## 1 PERSONAL INFORMATION

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**Name:** Fabio Palomba

**Date of Birth:** 3th August, 1989

**Place of Birth:** Naples, Italy

**Address:** Via Giovanni Falcone, 41

84081 Baronissi (SA), Italy

**Phone:** +39 3477460798

**E-mail:** fpalomba@unisa.it

**Website:** <https://fpalomba.github.io/>

**Google Scholar profile:** <https://goo.gl/dorFrh>

## 2 JOB POSITIONS

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**2019 - current**    **ASSISTANT PROFESSOR**  
*Department of Computer Science - University of Salerno, Italy*

**2018 - 2019**    **SENIOR RESEARCH ASSOCIATE**  
*Zurich Empirical Software Engineering Team - University of Zurich, Switzerland*

**2017**    **POST-DOC RESEARCHER**  
*Delft University of Technology (The Netherlands) and Eindhoven University of Technology (The Netherlands)*

## 3 QUALIFICATIONS/LICENCES

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**2020**    **ITALIAN SCIENTIFIC QUALIFICATION AS FULL PROFESSOR.**  
*Sector 01/B1 – Informatica.*  
*Evaluation available at: <https://asn18.cineca.it/pubblico/miur/esito-abilitato/01%252FB1/1/4>.*

**2019**    **ITALIAN SCIENTIFIC QUALIFICATION AS FULL PROFESSOR.**  
*Sector 09/H1 – Sistemi di Elaborazione delle Informazioni*  
*Evaluation available at: <https://asn18.cineca.it/pubblico/miur/esito-abilitato/09%252FH1/1/3>.*

**2019**    **ITALIAN SCIENTIFIC QUALIFICATION AS ASSOCIATE PROFESSOR.**  
*Sector 01/B1 – Informatica.*  
*Evaluation available at: <https://asn18.cineca.it/pubblico/miur/esito/01%252FB1/2/1>.*

**2019**    **ITALIAN SCIENTIFIC QUALIFICATION AS ASSOCIATE PROFESSOR.**  
*Sector 09/H1 – Sistemi di Elaborazione delle Informazioni*  
*Evaluation available at: <https://asn18.cineca.it/pubblico/miur/esito/09%252FH1/2/1>.*

**2014**    **LICENCE OF COMPUTER ENGINEER**  
*University of Molise, Italy*

## 4 EDUCATION

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- 2017**     **DEGREE OF EUROPEAN DOCTOR OF PHILOSOPHY (PH.D.) IN MANAGEMENT & INFORMATION TECHNOLOGY**  
*University of Salerno, Italy*  
Funded by University of Salerno and University of Molise.  
Advisor: Prof. Andrea De Lucia
- 2013**     **MASTER'S DEGREE (M.Sc.) IN COMPUTER SCIENCE**  
*University of Salerno, Italy*  
110/110 magna cum laude and special commendation by the commission  
Advisor: Prof. Andrea De Lucia
- 2011**     **BACHELOR'S DEGREE (B.Sc.) IN COMPUTER SCIENCE**  
*University of Molise, Italy*  
110/110 cum laude  
Advisor: Prof. Rocco Oliveto

## 5 RESEARCH

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### 5.1 SUMMARY OF THE MAIN RESEARCH TOPICS AND ACHIEVEMENTS

My research activity is in the area of Software Engineering and, in particular, is mainly focused (but not limited) to the following topics:

- Bad Code Smell Detection and Management;
- Test Code Quality;
- Bug Prediction;
- Mobile Software Engineering;
- Social Aspects in Software Engineering;
- Traceability Management;
- Mining Software Repositories;
- Empirical Software Engineering.

In these research topics I have published around 100 papers in international journals and conferences indexed in DBLP, SCOPUS (number of citations = 2,415; h-index = 28), and Google Scholar (number of citations = 3,938; h-index = 35). My overall m-index (that is, the h-index normalized by the number of years of activity) is 4 and 5 considering SCOPUS and Google Scholar, respectively. I have been the recipient of **two ACM/SIGSOFT Distinguished Paper Awards, one IEEE/TCSE Distinguished Paper Award, one Best Paper Award Honorable Mention, one Best Tool Demo Award, and one bronze medal at the ACM/SIGSOFT Student Research Competition**. Furthermore, **my PhD Thesis has been the recipient of the 2017 IEEE Computer Society Best Thesis Award**. In addition, I have been the recipient of **nine Outstanding/Distinguished Reviewer Awards** for my review activities.

In the following, I describe the research topics of interest with reference to the published or submitted results.

**Bad Code Smell Detection and Management:** Bad code smells have been defined by Martin Fowler as symptoms of poor design and implementation choices. Bad smells are usually introduced in software systems because developers poorly conceived the design of a code component. Complex Class, *i.e.*, a class that contain complex methods and it is very large in terms of LOC; or God Class, *i.e.*, a class that does too much/knows too much about other classes, are only some examples of a plethora of bad smells identified in well-known catalogues. Recent empirical studies showed that code smells hinder comprehensibility, and possibly increase change- and fault- proneness. For these reasons, the main research topics in this area are the definition of new approaches able to (i) detect bad code smells in the source code [C2, C5, C11, C19, J1]; (ii) study the

reason behind their introduction and removal [C4, J4, J8]; (iv) study the impact of code smells on non functional attributes of source code [C3, C20, J7, J10, J11], and (v) recommend their removal via appropriate refactoring operations [C1, C6, C21, J2].

**Test Code Quality:** Test cases form the first line of defense against the introduction of software faults. As such, with the help of testing framework like, for instance, Junit developers create test methods and run these periodically on their code. To support the testing activities, the research community mainly focused on the definition of techniques and tools for (i) the automatic generation of test cases, or (ii) the improvement of the effectiveness of test classes with respect to code coverage. In this context, a little knowledge on the impact and the usefulness of code quality is available. The main research topic in this area relates to the definition of quality-aware methodologies for the automatic generation of test cases [C12] and the investigation of the impact of test smells, i.e., symptoms of the presence of bad design choices in test code, on the effectiveness [C23] and the maintainability of test cases [C10, C14].

**Bug Prediction:** Allocating resources for the testing and the verification of all the parts of a large software system is a cost-prohibitive task. To alleviate this issue, prediction models able to identify portions of source code more prone to contain bugs have been the object of several studies. The main research topic is the definition of accurate prediction models that, on the one hand use a suitable set of predictors able to characterize the bug-proneness of code components [C8, C13, C25, J5], and on the other hand is able to use appropriate machine learning techniques to distinguish those components affected by bug [J6].

**Mobile Software Engineering:** According to recent statistics, over two billion users rely on smartphones and tablets to perform their daily activities. Not only do users play games or send messages, they use mobile apps for every type of need, including social and emergency connectivity. Mobile software engineering is the field responsible for the definition of techniques able to improve the life of both mobile developers and end users. The main research topic includes the application of mining software repositories techniques in the context of user reviews, with the goal of extracting actionable knowledge to incorporate in novel techniques and tools helping developers in performing their activities [C9, C16, C28, C29, J9].

**Social Aspects in Software Engineering:** The success of software engineering projects is in large part dependent on social and organizational aspects of the development community. Indeed, as envisioned by the National Knowledge and Innovation Agenda ICT 2016 – 2019 in the Netherlands, *“software and system complexity is not solely of technological nature but also defined by people and processes”*. In the context, the role played by social aspects in software engineering has been mainly investigated in terms of socio-technical congruence, i.e., the coordination between social relationships and technical aspects of the source code. However, a few knowledge on the impact of social debt, i.e., sub-optimal characteristics or patterns across the organizational structure around a software system that may lead to additional unforeseen project costs, is available [Grant-1]. Key research topics in this area regard the understanding of the interplay between social and technical debt [C27], as well as the definition of techniques and tools able to make developers and project managers aware of the presence of social debt in the community [J13].

**Traceability Management:** Traceability has been defined as “the ability to describe and follow the life of an artifact, in both a forwards and backwards direction”. Thus, traceability links help software engineers to understand the relationships and dependencies among various software artifacts (requirements, code, tests, models, etc.) developed during the software lifecycle. The two main research topics related to the traceability management are event-based systems for traceability management and information retrieval based methods and tools supporting the software engineer in the traceability link recovery [C9, C16, C29, J9].

**Mining Software Repositories:** Software repositories such as source control systems, archived communications between project personnel, and defect tracking systems are used to help in managing the progress of software projects. Software practitioners and researchers recognize the benefits of mining this information to support the maintenance and the evolution of software systems by improving software design/reuse and empirically validating novel ideas and techniques. Research is now proceeding to uncover the ways in which mining these repositories can help to understand software development and software evolution [C2, C4, C5, C10, C11, C13, C14, C17, C20, C21, C22, J1-J14], to support predictions about software development [J5, J6, J10, J10], and to exploit this knowledge in planning future development [C9, C16, J7].

**Empirical Software Engineering:** Empirical software engineering is a sub-domain of software engineering focusing on experiments on software systems (software products, processes, and resources). It is interested in devising experiments on software [J1], in collecting data from these experiments [J3], and in devising laws and theories from this data [C4, C14, J4]. Proponents of experimental software engineering advocate that the nature of software is such that we can advance the knowledge on software through experiments only. The scientific method suggests a cycle of observations, laws, and theories to advance science. Empirical software engineering applies this method to software.

## 5.2 PH.D. STUDENTS ADVISING/CO-ADVISING

I am currently the Advisor or Co-Advisor of the following Ph.D. students:

- 2021 - current** - **GIAMMARIA GIORDANO**  
*Ph.D. Student at the University of Salerno, working on topics connected to the identification of privacy concerns in software projects through the use of artificial intelligence techniques. Co-advisor: Prof. Filomena Ferrucci.*
- 2020 - current** - **EMANUELE IANNONE**  
*Ph.D. Student at the University of Salerno, working on topics connected to the analysis and automated detection/refactoring of software vulnerabilities.*
- 2019 - current** - **LARISSA BRAZ**  
*Ph.D. Student at the University of Zurich, working on topics connected to the software testing and vulnerabilities - hired under the Ambizione project of which I am scientific coordinator. Co-advisor: Prof. Alberto Bacchelli.*

## 6 TEACHING

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### 6.1 LECTURER

- 2020 - 2021** - **SOFTWARE DEPENDABILITY**  
*Lecturer at the Master's Degree of Computer Science at the University of Salerno.*
- 2020 - 2021** - **FUNDAMENTALS OF ARTIFICIAL INTELLIGENCE**  
*Lecturer at the Bachelor's Degree of Computer Science at the University of Salerno.*
- 2019 - 2020** - **SOFTWARE DEPENDABILITY**  
*Lecturer at the Master's Degree of Computer Science at the University of Salerno.*
- 2018 - 2019** - **SOFTWARE DEPENDABILITY**  
*Lecturer at the Master's Degree of Computer Science at the University of Salerno.*
- 2018 - 2019** - **SOFTWARE TESTING**  
*Co-Lecturer at the Bachelor's and Master's Degrees (joint course) of Computer Science at the University of Zurich.*
- 2018 - 2019** - **ADVANCED SOFTWARE ENGINEERING**  
*Lecturer at the Bachelor's Degree of Computer Science at the University of Zurich.*
- 2017 - 2018** - **SOFTWARE ENGINEERING METHODS**  
*Co-Lecturer at the Bachelor's Degree of Computer Science at the Delft University of Technology.*

### 6.2 TEACHING ASSISTANCE

- 2016** - **PROGRAMMING LANGUAGES**  
*Teaching Assistant in the course of Prof. Maurizio Tucci at the Bachelor Degree of Computer Science at the University of Salerno*
- 2016** - **PROGRAMMING LANGUAGES II**  
*Teaching Assistant in the course of Prof. Carmine Gravino at the Bachelor Degree of Computer Science at the University of Salerno*
- 2016** - **SOFTWARE ENGINEERING II: MAINTENANCE, EVOLUTION, AND SOFTWARE PROJECT MANAGEMENT**  
*Teaching Assistant and Students' Projects Evaluator in the course of Prof. Andrea De Lucia at the Master Degree*

*of Computer Science at the University of Salerno*

- 2016**     **SOFTWARE ENGINEERING I**  
*Teaching Assistant and Students' Projects Evaluator in the course of Prof. Andrea De Lucia at the Bachelor Degree of Computer Science at the University of Salerno*
- 2015**     **SOFTWARE ENGINEERING II: MAINTENANCE AND TESTING**  
*Teaching Assistant and Students' Projects Evaluator in the course of Prof. Andrea De Lucia at the Master Degree of Computer Science at the University of Salerno*
- 2015**     **SOFTWARE ENGINEERING I**  
*Teaching Assistant and Students' Projects Evaluator in the course of Prof. Andrea De Lucia at the Bachelor Degree of Computer Science at the University of Salerno*
- 2014**     **IT PROJECT AND SERVICE MANAGEMENT**  
*Teaching Assistant and Students' Projects Evaluator in the course of Prof. Andrea De Lucia at the Master Degree of Management and Information Technology at the University of Salerno*
- 2014**     **DECISION SUPPORT SYSTEMS**  
*Teaching Assistant and Students' Projects Evaluator in the course of Prof. Andrea De Lucia at the Master Degree of Business Economy at the University of Salerno.*

### **6.3 THESES ADVISING/CO-ADVISING**

- 2020**     **CATCH ME IF YOU CAN: TOWARD AUTOMATIC EXPLOIT OF KNOWN VULNERABILITIES**  
*Student: Emanuele Iannone.  
Master Thesis – University of Salerno, Italy.*
- 2020**     **UNDERSTANDING ARCHITECTURAL SMELLS: A NOVEL TOOL AND A FAMILY OF EMPIRICAL STUDIES**  
*Student: Manuel De Stefano. Advisor: Prof. Andrea De Lucia.  
Master Thesis – University of Salerno, Italy.*
- 2019**     **CLASSIFYING SOURCE CODE QUALITY IMPROVEMENT OPPORTUNITIES IN CONTINUOUS INTEGRATION**  
*Student: Jonas Klass. Advisor: Prof. Alberto Bacchelli.  
Master Thesis – University of Zurich, Switzerland.*
- 2019**     **LAMBDFIED JAVA APIs: THE DEVELOPER'S PERSPECTIVE**  
*Student: Fernando Petruccio. Advisor: Prof. Alberto Bacchelli.  
Master Thesis – Joint project between University of Zurich, Switzerland, and University of Salerno, Italy.*
- 2019**     **THE SECRET LIFE OF SOFTWARE VULNERABILITIES: AN EMPIRICAL STUDY**  
*Student: Roberta Guadagni. Advisor: Prof. Alberto Bacchelli.  
Master Thesis – Joint project between University of Zurich, Switzerland, and University of Salerno, Italy.*
- 2019**     **ON THE EFFECTIVENESS OF MANUAL AND AUTOMATIC UNIT TEST GENERATION: TEN YEARS LATER**  
*Student: Domenico Serra.  
Master Thesis – Joint project between University of Zurich, Switzerland, and University of Salerno, Italy.*
- 2018**     **CLASSIFYING THE ROOT CAUSE OF FLAKY TESTS**  
*Student: Moritz Eck. Advisor: Prof. Alberto Bacchelli  
Master Thesis – University of Zurich, Switzerland*
- 2017**     **DETECTING CODE SMELLS IN MOBILE APPLICATIONS**  
*Students: Dustin Lim. Advisor: Prof. Andy Zaidman  
Master Thesis – Delft University of Technology, The Netherlands*

- 2017**     **A FRAMEWORK FOR THE UI TESTING OF ANDROID AND IOS APPLICATIONS**  
*Students: René Vennik and Wim de With.*  
*Bachelor End Project – Delft University of Technology, The Netherlands*
- 2016**     **A LARGE SCALE EMPIRICAL STUDY ON THE PERFORMANCES OF WITHIN- AND CROSS-PROJECT BUG PREDICTION MODELS**  
*Student: Salvatore Geremia. Advisor: Prof. Andrea De Lucia*  
*Master Thesis – University of Salerno, Italy*
- 2016**     **A TOOL FOR MINING PERFORMANCE INDICATORS OF JAVA APPLICATIONS**  
*Student: Elisa D'Eugenio. Advisor: Prof. Andrea De Lucia*  
*Master Thesis – University of Salerno, Italy*
- 2016**     **DESIGN AND IMPLEMENTATION OF A TOOL FOR EXPERIMENTING CROSS-PROJECT BUG PREDICTION MODELS**  
*Student: Pasquale Martiniello. Advisor: Prof. Andrea De Lucia*  
*Bachelor Thesis – University of Salerno, Italy*
- 2016**     **USING RANKING ALGORITHMS IN MINING USER REVIEWS: CHALLENGES AND OPPORTUNITIES**  
*Student: Michele Lotierzo. Advisor: Prof. Andrea De Lucia*  
*Bachelor Thesis – University of Salerno, Italy*
- 2016**     **DESIGN AND IMPLEMENTATION OF A TOOL FOR DETECTING TEXTUAL CODE SMELLS IN SOURCE CODE**  
*Student: Elena Sollai. Advisor: Prof. Andrea De Lucia*  
*Bachelor Thesis – University of Salerno, Italy*
- 2016**     **DESIGN AND IMPLEMENTATION OF A TOOL FOR RUNNING BUG PREDICTION EXPERIMENTATIONS**  
*Student: Fabiano Pecorelli. Advisor: Prof. Andrea De Lucia*  
*Bachelor Thesis – University of Salerno, Italy*
- 2015**     **MINING ENERGETIC CODE SMELLS IN ANDROID APPS**  
*Student: Antonio Prota. Advisor: Prof. Andrea De Lucia*  
*Master Thesis – University of Salerno, Italy*
- 2015**     **REFACTORING OF CODE SMELLS: AN EMPIRICAL STUDY**  
*Student: Fabio Soggia. Advisor: Prof. Andrea De Lucia*  
*Master Thesis – University of Salerno, Italy*
- 2015**     **AN ECLIPSE PLUG-IN FOR SUPPORTING CODE SMELL IDENTIFICATION VIA HISTORICAL INFORMATION: THE HIST PROJECT**  
*Student: Alessandro Longo. Advisor: Prof. Andrea De Lucia*  
*Bachelor Thesis – University of Salerno, Italy*
- 2014**     **ON THE ROLE OF DEVELOPERS' SCATTERING METRICS IN BUG PREDICTION**  
*Student: Dario Di Nucci. Advisor: Prof. Andrea De Lucia*  
*Master Thesis – University of Salerno, Italy*
- 2014**     **DESIGN AND IMPLEMENTATION OF AN ECLIPSE PLUG-IN FOR EXTRACTING ISSUES FROM THE BUGZILLA REPOSITORY**  
*Student: Davide De Chiara. Advisor: Prof. Andrea De Lucia*  
*Bachelor Thesis – University of Salerno, Italy*
- 2014**     **DESIGN AND IMPLEMENTATION OF AN ECLIPSE PLUG-IN FOR MINING GITHUB**  
*Student: Santolo Tubelli. Advisor: Prof. Andrea De Lucia*  
*Bachelor Thesis – University of Salerno, Italy*
- 2014**     **DESIGN AND IMPLEMENTATION OF AN ECLIPSE PLUG-IN FOR EXTRACTING QUALITY METRICS FROM SOURCE CODE**  
*Student: Gianmarco Del Pozzo. Advisor: Prof. Andrea De Lucia*  
*Bachelor Thesis – University of Salerno, Italy*

## 7 PROFESSIONAL ACTIVITIES

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### 7.1 ORGANIZATION COMMITTEE PARTICIPATION

- 2022**      **NEW IDEAS AND EMERGING RESULTS (NIER) TRACK CO-CHAIR**  
*37<sup>th</sup> International Conference on Automated Software Engineering (ASE 2022), Ann Arbor, Michigan, USA*
- 2022**      **INDUSTRIAL TRACK CO-CHAIR**  
*29<sup>th</sup> International Conference on Software Analysis, Evolution, and Reengineering (SANER 2022), Honolulu, Hawaii, USA*
- 2021**      **PROGRAM CO-CHAIR**  
*29<sup>th</sup> International Conference on Program Comprehension (ICPC 2021), Madrid, Spain*
- 2021**      **SPECIAL ISSUE CHAIR**  
*17<sup>th</sup> International Conference on Open-Source Systems (OSS 2021), Lahti, Finland*
- 2021**      **ASSOCIATE CHAIR**  
*24<sup>th</sup> ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW 2021), Virtual*
- 2021**      **PROGRAM COMMITTEE MEMBER**  
*36<sup>th</sup> International Conference on Automated Software Engineering (ASE 2021), Melbourne, Australia*
- 2021**      **PROGRAM COMMITTEE MEMBER**  
*28<sup>th</sup> International Conference on Software Analysis, Evolution, and Reengineering (SANER 2021), Virtual*
- 2020**      **PROGRAM COMMITTEE MEMBER**  
*27<sup>th</sup> International Conference on Software Analysis, Evolution, and Reengineering (SANER 2020), London, Canada*
- 2020**      **PROGRAM COMMITTEE MEMBER**  
*36<sup>th</sup> International Conference on Software Maintenance and Evolution (ICSME 2020), Adelaide, Australia*
- 2020**      **PROGRAM COMMITTEE MEMBER**  
*35<sup>th</sup> International Conference on Automated Software Engineering (ASE 2020), Melbourne, Australia*
- 2020**      **PROGRAM COMMITTEE MEMBER**  
*16<sup>th</sup> International Conference on Mining Software Repositories (MSR 2020), Seoul, South Korea*
- 2020**      **PROGRAM COMMITTEE MEMBER**  
*28<sup>th</sup> International Conference on Program Comprehension (ICPC 2020), Seoul, South Korea*
- 2019**      **CO-ORGANIZER**  
*3<sup>rd</sup> International Workshop on Machine Learning Techniques for Software Quality Evaluation (MaLTeSQuE 2019), Tallinn, Estonia*
- 2019**      **PROGRAM COMMITTEE MEMBER**  
*35<sup>th</sup> International Conference on Software Maintenance and Evolution (ICSME 2019), Cleveland, USA*
- 2019**      **PROGRAM COMMITTEE MEMBER**  
*27<sup>th</sup> International Conference on Program Comprehension (ICPC 2019), Montreal, Canada*
- 2019**      **PROGRAM COMMITTEE MEMBER**  
*15<sup>th</sup> International Conference on Mining Software Repositories (MSR 2019), Montreal, Canada*
- 2019**      **PROGRAM COMMITTEE MEMBER**  
*6<sup>th</sup> International Conference on Mobile Software Engineering and Systems (MobileSoft 2019), Montreal, Canada*

- 2019**      **PROGRAM COMMITTEE MEMBER**  
*26<sup>th</sup> International Conference on Software Analysis, Evolution, and Reengineering (SANER 2019), Hangzhou, China*
- 2018**      **CO-ORGANIZER**  
*2<sup>nd</sup> Workshop on Machine Learning Techniques for Software Quality Evaluation (MaLTeSQuE 2018), Campobasso, Italy*
- 2018**      **PROGRAM COMMITTEE MEMBER**  
*26<sup>th</sup> International Conference on Program Comprehension (ICPC 2018), Gothenburg, Sweden*
- 2018**      **PROGRAM COMMITTEE MEMBER**  
*15<sup>th</sup> International Conference on Mining Software Repositories (MSR 2018), Gothenburg, Sweden*
- 2018**      **PROGRAM COMMITTEE MEMBER**  
*25<sup>th</sup> International Conference on Software Analysis, Evolution, and Reengineering (SANER 2018), Campobasso, Italy*
- 2018**      **PUBLICITY CO-CHAIR**  
*25<sup>th</sup> International Conference on Software Analysis, Evolution, and Reengineering (SANER 2018), Campobasso, Italy*
- 2017**      **PROGRAM COMMITTEE MEMBER**  
*33<sup>rd</sup> International Conference on Software Maintenance and Evolution (ICSME 2017), Shanghai, China*
- 2017**      **PROGRAM COMMITTEE MEMBER**  
*1<sup>st</sup> International Workshop on Technical Debt Analytics (TDA 2016), Hamilton, New Zealand*
- 2017**      **PROGRAM COMMITTEE MEMBER**  
*25<sup>st</sup> International Conference on Program Comprehension (ICPC 2016), Buenos Aires, Argentina*
- 2017**      **PROGRAM COMMITTEE MEMBER**  
*12<sup>nd</sup> International Conference on Software Engineering and Advances (ICSEA 2017), Vienna, Austria*
- 2016**      **PROGRAM COMMITTEE MEMBER**  
*1<sup>st</sup> International Workshop on Machine Learning Techniques in Software Quality Evaluation, Wroclaw, Polish*
- 2016**      **SCIENTIFIC SECRETARIAT**  
*12<sup>nd</sup> International Summer School on Software Engineering (ISSSE), University of Salerno*
- 2016**      **STUDENT VOLUNTEER**  
*38<sup>th</sup> International Conference on Software Engineering (ICSE 2016), Austin, USA*
- 2015**      **PROGRAM COMMITTEE MEMBER**  
*11<sup>st</sup> International Conference on Software Engineering and Advances (ICSEA 2016), Rome, Italy*
- 2015**      **PROGRAM COMMITTEE MEMBER**  
*13<sup>th</sup> Working Conference on Mining Software Repositories – Mining Challenge Track (MSR 2016), Austin, Texas*
- 2015**      **PROGRAM COMMITTEE MEMBER**  
*10<sup>th</sup> International Conference on Software Engineering and Advances (ICSEA 2015), Barcelona, Spain*
- 2014**      **WEB CHAIR**  
*23<sup>rd</sup> International Conference on Program Comprehension (ICPC 2015), Florence, Italy*
- 2014**      **STUDENT VOLUNTEER**  
*37<sup>th</sup> International Conference on Software Engineering (ICSE 2015), Florence, Italy*



**2014**      **SCIENTIFIC SECRETARIAT**  
*11<sup>th</sup> International Summer School on Software Engineering (ISSSE), University of Salerno*

## 7.2 JOURNAL SERVICES

**2021**      **GUEST EDITOR – SPRINGER’S JOURNAL OF EMPIRICAL SOFTWARE ENGINEERING**  
Special Issue on “Program Comprehension”

**2021 - current**      **ASSOCIATE EDITOR – E-INFORMATICA SOFTWARE ENGINEERING JOURNAL**

**2020 - current**      **REVIEW BOARD MEMBER – IEEE TRANSACTIONS ON SOFTWARE ENGINEERING**

**2020 - current**      **ASSOCIATE EDITOR – ELSEVIER’S JOURNAL OF SYSTEMS AND SOFTWARE**

**2019 - current**      **EDITORIAL ASSISTANT – ELSEVIER’S SCIENCE OF COMPUTER PROGRAMMING**

**2019 - current**      **SOCIAL MEDIA DIRECTOR – ACM TRANSACTIONS ON SOFTWARE ENGINEERING AND METHODOLOGY**

**2019 - 2020**      **EDITORIAL BOARD MEMBER – ELSEVIER’S JOURNAL OF SYSTEMS AND SOFTWARE**

**2019**      **GUEST EDITOR – ELSEVIER’S JOURNAL OF SYSTEMS AND SOFTWARE**  
Special Issue on “Machine Learning Techniques for Software Quality Evaluation”

**2018**      **GUEST EDITOR – SPRINGER’S JOURNAL OF EMPIRICAL SOFTWARE ENGINEERING**  
Special Issue on “Mobile Software Engineering”

**2018**      **GUEST EDITOR – WILEY’S JOURNAL OF SOFTWARE MAINTENANCE AND EVOLUTION**  
Special Issue on “Machine Learning Techniques for Software Quality Evaluation”

**2017 - current**      **REVIEW BOARD MEMBER – SPRINGER’S JOURNAL OF EMPIRICAL SOFTWARE ENGINEERING**

**2016 - current**      **REFeree ACTIVITIES**  
*Referee for:*

- TSE: IEEE Transactions on Software Engineering
- TOSEM: ACM Transactions on Software Engineering and Methodology
- TR: IEEE Transactions on Software Reliability
- EMSE: Springer’s Empirical Software Engineering
- IST: Elsevier’s Information and Software Technology
- JSS: Elsevier’s Journal of Systems and Software
- JSME: Wiley’s Journal of Software Maintenance and Evolution: Research and Practice

## 7.3 INVITED SPEAKER

**2020**      F. Palomba.  
Artificial Intelligence, This Unknown.  
Virtual Annual Conference on Geospatial Big Data, December 21<sup>th</sup>.

- 2020** F. Palomba.  
Mutation Testing Meets Software Analytics: A Hands-On Tutorial.  
15<sup>th</sup> International Conference on Mining Software Repositories (MSR 2020) – Education Track, June 30<sup>th</sup>.
- 2019** F. Palomba.  
Test Code Quality: A New Dimension of Test Code Effectiveness.  
10<sup>th</sup> International Workshop on Empirical Software Engineering in Practice (IWSEEP), Tokyo University of Technology, December 13<sup>th</sup>.
- 2019** F. Palomba.  
Software Design 101: Improving the Design of Existing Code, Tests, and Communities.  
14<sup>th</sup> International Summer School on Software Engineering, University of Salerno, June 17<sup>th</sup>.
- 2019** F. Palomba.  
Software Design 101: Improving the Design of Existing Code, Tests, and Communities.  
2<sup>nd</sup> International Summer School on Software Engineering, Tampere University of Technology, June 6<sup>th</sup>.
- 2018** F. Palomba.  
Managing Source Code Quality in Mobile Applications.  
4<sup>th</sup> International Summer School on Software Engineering, Free-University of Bolzano, July 10<sup>th</sup>.
- 2018** F. Palomba.  
Exploiting Machine Learning Techniques for the Automatic Identification of Code Smells  
1<sup>st</sup> International Summer School on Machine Learning, Eindhoven University of Technology, July 20<sup>th</sup>
- 2018** F. Palomba.  
Machine Learning for Mobile Applications.  
IFI Summer School on Machine Learning, University of Zurich, June 28<sup>th</sup>.
- 2017** F. Palomba.  
Does Refactoring of Test Smells Induce Fixing Flaky Tests?  
CREST Open Workshop organized by the University College of London, November 27<sup>th</sup>.
- 2017** F. Palomba.  
Not Only Maintainability: Revisiting Test Smells as a Measure of Test Code Effectiveness.  
IPA Fall Days on System and Software Analysis organized by the CWI institute, Nunspeet (The Netherlands), November 8<sup>th</sup>
- 2016** F. Palomba.  
Mining Version Histories for Detecting Code Smells.  
CREST Open Workshop organized by the University College of London, November 29<sup>th</sup>.
- 2015** F. Palomba.  
Using Alternative Sources of Information for Smell Detection.  
Delft University of Technology, October 23<sup>rd</sup>.
- 2014** F. Palomba  
Software Metrics and Antipatterns: Challenges and Solution  
University of Molise, November, 12<sup>nd</sup>.

## 7.4 GUEST LECTURER

- 2020** F. Palomba.  
On Code and Test Smells  
Software Modeling and Analysis Course at the University of Bern, November 4<sup>th</sup>

- 2017 F. Palomba.  
Code Smells: Relevance of the Problem and Novel Detection Techniques  
Software Maintenance and Evolution Course at the University of Zurich, December 8<sup>th</sup>
- 2017 F. Palomba.  
Mining User Reviews to Support the Evolution of Mobile Applications.  
Green Lab at the University of Amsterdam, October 19<sup>th</sup>
- 2017 F. Palomba.  
Mining User Reviews to Support the Evolution of Mobile Applications.  
Mining Software Repositories Course at the Delft University of Technology, September 26<sup>th</sup>
- 2016 F. Palomba.  
The Back-end Side of Compilers.  
Software Engineering Course at the University of Salerno, June 4<sup>th</sup>
- 2016 F. Palomba.  
Bug Prediction: An Overview.  
Software Engineering Course at the University of Salerno, May 27<sup>th</sup>
- 2016 F. Palomba.  
Code Smell Detection and Refactoring Automation.  
Software Engineering Course at the University of Salerno, May 19<sup>th</sup>

## 7.5 HIRING COMMITTEES

- 2019 **HIRING COMMITTEE MEMBER OF AN ASSISTANT PROFESSOR ON BIG DATA SCIENCE**  
Designed member of the hiring committee for a position of Assistant Professor at the University of Zurich. In this committee, I was designed as the delegate of the Senior Research Associates.
- 2019 **HIRING COMMITTEE MEMBER OF AN ASSOCIATE PROFESSOR ON ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**  
Designed member of the hiring committee for a position of Assistant Professor at the University of Zurich. In this committee, I was designed as the delegate of the Senior Research Associates.

## 7.6 RESEARCH GRANT COMMITTEES

- 2021 **MEMBER OF THE NATURAL SCIENCES AND ENGINEERING RESEARCH COUNCIL OF CANADA (NSERC) DISCOVERY GRANTS PROGRAM**  
Member of the selection committee of research proposals submitted to the Engineering Section of the NSERC Discovery Grants Program, which aimed at promoting the research of young researchers.
- 2019 **MEMBER OF THE ACADEMY OF FINLAND RESEARCH PROGRAM ON “PROGRAMMABLE WORLD AND ADVANCED SOFTWARE TECHNIQUES”**  
Member of the selection committee of research proposals submitted to the “Programmable World and Advanced Software Technologies” research program, which aimed at promoting new research directions of senior researchers located in Finland or that were planning to move to Finland.
- 2019 **MEMBER OF THE CROATIAN SCIENCE FOUNDATION RESEARCH PROGRAM ON “BUSINESS SOFTWARE PROJECTS: CRITICAL FACTORS, MODELLING, AND PERSPECTIVES”**  
Member of the selection committee of research proposals submitted to the “Business Software Projects: Critical Factors, Modelling, and Perspectives” research program, which aimed at promoting new research directions of both young and senior researchers located in Croatia.

## 8 CONFERENCES AND SCHOOLS PARTICIPATIONS

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### 8.1 CONFERENCES

- 2020**      **35<sup>TH</sup> IEEE INTERNATIONAL CONFERENCE ON SOFTWARE MAINTENANCE AND EVOLUTION (ICSME 2020)**  
*Virtual*
- 2020**      **42<sup>ND</sup> IEEE INTERNATIONAL CONFERENCE ON SOFTWARE ENGINEERING (ICSE 2020)**  
*Virtual*
- 2019**      **41<sup>ST</sup> IEEE INTERNATIONAL CONFERENCE ON SOFTWARE ENGINEERING (ICSE 2019)**  
*Montreal, Canada*
- 2018**      **34<sup>TH</sup> IEEE INTERNATIONAL CONFERENCE ON SOFTWARE MAINTENANCE AND EVOLUTION (ICSME 2018)**  
*Madrid, Spain*  
Presentation of [C36].
- 2018**      **40<sup>TH</sup> IEEE INTERNATIONAL CONFERENCE ON SOFTWARE ENGINEERING (ICSE 2018)**  
*Gothenburg, Sweden*  
Presentation of [J7], [J8].
- 2018**      **25<sup>TH</sup> IEEE INTERNATIONAL CONFERENCE ON SOFTWARE ANALYSIS, EVOLUTION, AND REENGINEERING (SANER 2018)**  
*Campobasso, Italy*
- 2017**      **33<sup>RD</sup> IEEE INTERNATIONAL CONFERENCE ON SOFTWARE MAINTENANCE AND EVOLUTION (ICSME 2017)**  
*Shanghai, China*  
Presentation of [C23].
- 2017**      **39<sup>TH</sup> IEEE/ACM INTERNATIONAL CONFERENCE ON SOFTWARE ENGINEERING (ICSE 2017)**  
*Buenos Aires, Argentina*  
Presentation of [C16], [C18].
- 2017**      **25<sup>TH</sup> IEEE INTERNATIONAL CONFERENCE ON PROGRAM COMPREHENSION (ICPC 2017)**  
*Buenos Aires, Argentina*  
Presentation of [C21], [C22].
- 2016**      **49<sup>TH</sup> CREST OPEN WORKSHOP (COW) ON SOFTWARE ARCHITECTURE AND TECHNICAL DEBT**  
*London, United Kingdom*  
Presentation of [J1].
- 2016**      **32<sup>ND</sup> IEEE INTERNATIONAL CONFERENCE ON SOFTWARE MAINTENANCE AND EVOLUTION (ICSME 2016)**  
*Raleigh, USA*  
Presentation of [C13], [C15].
- 2016**      **38<sup>TH</sup> IEEE/ACM INTERNATIONAL CONFERENCE ON SOFTWARE ENGINEERING (ICSE 2016)**  
*Austin, USA*  
Presentation of [C9], [C10].
- 2015**      **1<sup>ST</sup> INTERNATIONAL SUMMER SCHOOL ON SOFTWARE ENGINEERING (ISSSE)**  
*Free University of Bozen-Bolzano, Bolzano, Italy*  
Presentation of [C1].
- 2015**      **37<sup>TH</sup> IEEE/ACM INTERNATIONAL CONFERENCE ON SOFTWARE ENGINEERING (ICSE 2015)**  
*Florence, Italy*  
Presentation of [C4], [C5] and [C6].

- 2014**     **30<sup>TH</sup> IEEE INTERNATIONAL CONFERENCE ON SOFTWARE MAINTENANCE AND EVOLUTION (ICSME 2014)**  
*Victoria, British Columbia, Canada*  
Presentation of [C3].
- 2014**     **11<sup>TH</sup> INTERNATIONAL SUMMER SCHOOL ON SOFTWARE ENGINEERING (ISSSE)**  
*University of Salerno, Fisciano, Italy*  
Scientific Secretarial of the School
- 2013**     **28<sup>TH</sup> IEEE/ACM INTERNATIONAL CONFERENCE ON AUTOMATED SOFTWARE ENGINEERING (ASE 2013)**  
*Palo Alto, USA*  
Presentation of [C2].

## 9 RESEARCH INTERNSHIPS

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- 2021**     **VISITING PROFESSOR AT THE JHERONIMUS ACADEMY OF DATA SCIENCE, S'HERTOGENBOSCH, THE NETHERLAND**  
2 Months as Visitor Professor at the Jheronimus Academy of Data & Engineering (JADE) Lab. The research conducted in this time period resulted in the definition of novel methods and techniques for the application of machine learning and natural language processing to various software engineering domains, like code quality of infrastructure code as well as the analysis of functional and non-functional requirements of mobile applications.
- 2016**     **VISITING PHD STUDENT AT THE DELFT UNIVERSITY OF TECHNOLOGY, DELFT, THE NETHERLAND**  
3 Months as Visitor Student. The research conducted in this time period resulted in the definition of TACO, a code smell detection approach exploiting textual-based information, and its empirical evaluation [C11, J8].

## 10 AWARDS AND RECOGNITION

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- 2020**     **OUTSTANDING REVIEWER AWARD**  
e-Informatica Software Engineering Journal (EISEJ).
- 2020**     **OUTSTANDING REVIEWER AWARD**  
Elsevier's Journal of Systems and Software (JSS).
- 2019**     **DISTINGUISHED REVIEWER AWARD**  
27<sup>th</sup> IEEE/ACM International Conference on Program Comprehension (ICPC).
- 2019**     **OUTSTANDING REVIEWER AWARD**  
Elsevier's Journal of Systems and Software (JSS).
- 2018**     **BEST PAPER HONOURABLE MENTION FOR [C40]**  
*21<sup>th</sup> ACM International Conference on Computer Supported Cooperative Work (CSCW), New York, USA.*
- 2018**     **DISTINGUISHED REVIEWER AWARD**  
Springer's Journal of Empirical Software Engineering (EMSE).
- 2018**     **OUTSTANDING REVIEWER AWARD**  
Elsevier's Journal of Systems and Software (JSS).
- 2018**     **OUTSTANDING REVIEWER AWARD**  
Elsevier's Information and Software Technology Journal (IST).
- 2018**     **BEST TOOL DEMO AWARD FOR [C29]**  
*33<sup>rd</sup> IEEE International Conference on Software Maintenance and Evolution (ICSME), Shanghai, China.*

- 2017 IEEE COMPUTER SOCIETY BEST PHD THESIS AWARD – ITALY SECTION CHAPTER**  
For my PhD Thesis named: “Code Smells: Relevance of the Problem and Novel Detection Techniques”.  
<https://site.ieee.org/italy-cs/ieee-computer-society-italy-section-chapter-2017-phd-thesis-award/>
- 2017 DISTINGUISHED REVIEWER AWARD**  
Springer’s Journal of Empirical Software Engineering (EMSE).
- 2017 IEEE/TCSE DISTINGUISHED PAPER AWARD FOR [C23]**  
*33<sup>rd</sup> IEEE International Conference on Software Maintenance and Evolution (ICSME), Shanghai, China.*
- 2016 OUTSTANDING REVIEWER AWARD**  
Elsevier’s Information and Software Technology Journal (IST).
- 2015 ACM/SIGSOFT DISTINGUISHED PAPER AWARD FOR [C4]**  
*37<sup>th</sup> ACM/IEEE International Conference of Software Engineering (ICSE), Firenze, Italy.*
- 2015 BRONZE MEDAL AT THE STUDENT RESEARCH COMPETITION FOR [C5]**  
*37<sup>th</sup> ACM/IEEE International Conference of Software Engineering (ICSE), Firenze, Italy.*
- 2013 ACM/SIGSOFT DISTINGUISHED PAPER AWARD FOR [C2]**  
*28<sup>th</sup> ACM/IEEE International Conference on Automated Software Engineering (ASE), Palo Alto, USA.*

## 11 GRANTS

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- 2019 SNSF AMBIZIONE – AMOUNT: 894.430 CHF**  
The grant has the awarded by the Swiss National Science Foundation and represents one of the most prestigious individual research grants for young researchers in Europe. The project aims at devising novel instruments and techniques to improve automatic software testing.
- 2019 HASLER RESEARCH GRANT – AMOUNT: 50.000 CHF**  
The grant has the main goal to study the feasibility of new test code quality metrics based on a combination of factors deemed important by developers.
- 2018 FORSCHUNGSCREDIT POSTDOC GRANT – AMOUNT: 60.000 CHF**  
The grant has the main goal to study how test code quality can be exploited to improve test code effectiveness, with the aim of producing novel techniques and tools to help developers in designing effective test cases.
- 2017 4TU.NIRICT.2017 – AMOUNT: 70.000 €**  
The grant has the main goal to reinforce the collaboration among the four technical Universities in Netherlands. The proposal is related to the relationship between social and technical aspects of source code, and mainly concerned with the understanding of the impact of social debt on the introduction of code smells and fault.

## 12 LIST OF PAPERS

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### 12.1 INTERNATIONAL JOURNALS

- [J36] I. Kumara, M. Garriga, A. Romeu, D. Di Nucci, **F. Palomba**, D. Tamburri, W. J. van den Heuvel.  
The Do’s and Don’ts of Infrastructure Code: A Systematic Grey Literature Review.  
Elsevier’s Information and Software Technology (IST), in press, 2021.
- [J35] F. Dalla Palma, D. Di Nucci, **F. Palomba**, D. Tamburri.  
Within-Project Defect Prediction of Infrastructure-as-Code using Product and Process Metrics.

- IEEE Transactions on Software Engineering (TSE), in press, 2021.
- [J34] F. Pecorelli, **F. Palomba**, A. De Lucia.  
The Relation of Test-Related Factors to Software Quality: A Case Study on Apache Systems.  
Springer's Journal of Empirical Software Engineering (EMSE), Vol. 26, Issue 18, pp. 1-42, 2021.
- [J33] D. A. Tamburri, **F. Palomba**, R. Kazman.  
Success and Failure in Software Engineering: A Followup Systematic Literature Review.  
IEEE Transactions on Engineering Management (TEM), Vol. 68, N. 2, pp. 599-611, 2021.
- [J32] G. Grano, **F. Palomba**, H. Gall.  
Lightweight Assessment of Test Case Effectiveness using Source Code Quality Indicators.  
IEEE Transactions on Software Engineering (TSE), in press, 2021.
- [J31] D. A. Tamburri, **F. Palomba**, R. Kazman.  
Exploring Community Smells in Open-Source: An Automated Approach.  
IEEE Transactions on Software Engineering (TSE), Vol. 47, N. 3, pp. 630-652, 2021.
- [J30] **F. Palomba**, D. A. Tamburri, A. Serebrenik, A. Zaidman, R. Oliveto, F. Arcelli Fontana.  
Beyond Technical Aspects: How Do Community Smells Influence the Maintainability of Code Smells?  
IEEE Transactions on Software Engineering (TSE), Vol. 47, N. 1, pp. 108-129, 2021.
- [J29] **F. Palomba**, D. Tamburri.  
Predicting the Emergence of Community Smells using Socio-Technical Metrics: A Machine Learning Approach.  
Elsevier's Journal of Systems and Software (JSS), Vol. 171, pp. 110847, 2020.
- [J28] S. Boutaib, S. Bechikha, **F. Palomba**, M. Elarbia, L.B. Saida.  
Code Smell Detection and Identification in Imbalanced Environments.  
Elsevier's Expert Systems with Applications (ESWA), Vol. 166, pp. 114076, 2020.
- [J27] S. Dalla Palma, D. Di Nucci, **F. Palomba**, D. Tamburri.  
Towards a Catalogue of Software Quality Metrics for Infrastructure Code.  
Elsevier's Journal of Systems and Software (JSS), Vol. 170, pp. 110726, 2020.
- [J26] D. Tamburri, K. Blincoe, **F. Palomba**, R. Kazman.  
"The Canary in the Coal Mine...": A Cautionary Tale from the Decline of SourceForge.  
Wiley's Software Practice and Experience (SPE), Vol. 50, Issue 10, pp. 1930-1951, 2020.
- [J25] L. Pascarella, **F. Palomba**, A. Bacchelli.  
On the Performance of Method-Level Defect Prediction: A Negative Result.  
Elsevier's Journal of Systems and Software (JSS), Vol. 161, pp. 110493, 2020.
- [J24] G. Catolino, **F. Palomba**, D. Tamburri, A. Serebrenik, F. Ferrucci.  
Gender Diversity and Community Smells: Insights from the Trenches.  
IEEE Software, Vol. 37, Issue 1, pp. 10-16, 2020.
- [J23] G. Grano, **F. Palomba**, D. Di Nucci, A. De Lucia, H. Gall.  
Scented since the Beginning: On the Diffuseness of Test Smells in Automatically Generated Test Code.  
Elsevier's Journal of Systems and Software (JSS), Vol. 156, pp. 312-327, 2019.
- [J22] C. Vassallo, S. Panichella, **F. Palomba**, S. Proksch, H. Gall, A. Zaidman.  
How Developers Engage with Static Analysis Tools in Different Contexts.  
Springer's Journal of Empirical Software Engineering (EMSE), Vol. 25, Issue 2, pp. 1419-1457, 2019.
- [J21] P. Salza, **F. Palomba**, D. Di Nucci, A. De Lucia, F. Ferrucci.  
Third-Party Libraries in Mobile Apps: When, How, and Why Developers Update Them.  
Springer's Journal of Empirical Software Engineering (EMSE), Vol. 25, Issue 3, pp. 2341-2377, 2019.

- [J20] C. Vassallo, G. Grano, **F. Palomba**, H. Gall, A. Bacchelli.  
A Large-Scale Empirical Exploration on Refactoring Activities in Open Source Software Projects.  
Elsevier's Science of Computer Programming (SCP), Vol. 180, pp. 1-15, 2019.
- [J19] G. Catolino, **F. Palomba**, F. Arcelli Fontana, A. Zaidman, A. De Lucia, F. Ferrucci.  
Improving Change Prediction Models with Code Smell-Related Information.  
Springer's Journal of Empirical Software Engineering (EMSE), Vol. 25, Issue 1, pp. 49-95, 2019.
- [J18] G. Catolino, **F. Palomba**, A. Zaidman, F. Ferrucci.  
Not All Bugs are the Same: Understanding, Characterizing, and Classifying the Root Cause of Bugs.  
Elsevier's Journal of Systems and Software (JSS), Vol. 152, pp. 165-181, 2019.
- [J17] M. Ilyas Azeem, **F. Palomba**, Q. Wang.  
Machine Learning Techniques for Code Smell Detection: A Systematic Literature Review and Meta-Analysis.  
Elsevier's Information and Software Technology (IST), Vol. 108, pp. 115-138, 2019.
- [J16] L. Pascarella, **F. Palomba**, A. Bacchelli.  
Fine-Grained Just-In-Time Defect Prediction.  
Elsevier's Journal of Systems and Software (JSS), Vol. 150, pp. 22-36, 2019.
- [J15] E. Fregnan, T. Baum, **F. Palomba**, A. Bacchelli.  
A Survey on Software Coupling Relations and Tools.  
Elsevier's Information and Software Technology (IST), Vol. 107, pp. 159-178, 2019.
- [J14] D. A. Tamburri, **F. Palomba**, A. Zaidman, A. Serebrenik.  
Discovering Community Types in Open Source: A Systematic Approach and Its Evaluation.  
Springer's Journal of Empirical Software Engineering (EMSE), Vol. 24, pp. 1369-1417, 2019.
- [J13] **F. Palomba**, D. Di Nucci, A. Panichella, A. Zaidman, A. De Lucia.  
On the Impact of Code Smells on the Energy Consumption of Mobile Apps  
Elsevier's Information and Software Technology (IST), Vol. 105, pp. 43-55, 2019.
- [J12] **F. Palomba**, M. Zanoni, F. Arcelli Fontana, A. De Lucia, R. Oliveto.  
Toward a Smell-aware Bug Prediction Model  
IEEE Transactions on Software Engineering (TSE), Vol. 45, N. 2, pp. 194-218, 2018.
- [J11] **F. Palomba**, G. Bavota, R. Oliveto, F. Fasano, M. Di Penta, A. De Lucia.  
A Large-scale Empirical Study on the Lifecycle of Code Smell Co-Occurrences  
Elsevier's Information and Software Technology (IST), Vol. 99, pp. 1-10, 2018.
- [J10] G. Catolino, **F. Palomba**, A. De Lucia, F. Ferrucci, A. Zaidman.  
Enhancing Change Prediction Models using Developer-Related Factors.  
Elsevier's Journal of Systems and Software (JSS), Vol. 143, pp. 14-28, 2018.
- [J9] **F. Palomba**, M. Linares Vasquez, G. Bavota, R. Oliveto, M. Di Penta, D. Poshyvanyk, A. De Lucia.  
Crowdsourcing User Reviews to Support The Evolution of Mobile Apps.  
Elsevier's Journal of Systems and Software (JSS), Vol. 137, pp. 143-162, 2018.
- [J8] **F. Palomba**, A. Panichella, A. Zaidman, R. Oliveto, A. De Lucia.  
The Scent of a Smell: An Extensive Comparison Between Structural and Textual Code Smells  
IEEE Transactions on Software Engineering (TSE), Vol. 44, N. 10, pp. 977-1000, 2018.
- [J7] **F. Palomba**, G. Bavota, R. Oliveto, F. Fasano, M. Di Penta, A. De Lucia.  
On The Diffuseness and the Impact on Maintainability of Code Smells: A Large Scale Empirical Investigation.  
Springer's Journal of Empirical Software Engineering (EMSE), Vol. 23, N. 3, pp. 1188-1221, 2018.



- [J6] D. Di Nucci, **F. Palomba**, G. De Rosa, G. Bavota, R. Oliveto, A. De Lucia.  
A Developer Centered Bug Prediction Model.  
IEEE Transactions on Software Engineering (TSE), Vol. 44, N. 1, pp. 5-24, 2018.
- [J5] D. Di Nucci, **F. Palomba**, R. Oliveto, A. De Lucia.  
Dynamic Selection of Classifiers to Use in Bug Prediction: An Adaptive Model.  
IEEE Transactions on Emerging Topics in Computational Intelligence (TETCI), Vol. 1, N. 3, pp. 202-212, 2017.
- [J4] M. Tufano, **F. Palomba**, G. Bavota, R. Oliveto, M. Di Penta, A. De Lucia, D. Poshyvanyk.  
When and Why Your Code Starts to Smell Bad (and Whether the Smells go Away).  
IEEE Transactions on Software Engineering (TSE), Vol. 43, N. 11, pp. 1063-1088, 2017.
- [J3] M. Tufano, **F. Palomba**, G. Bavota, R. Oliveto, M. Di Penta, A. De Lucia, D. Poshyvanyk.  
There and Back Again: Can You Compile That Snapshot?  
Wiley's Journal on Software Maintenance: Evolution and Process (JSEP), Vol. 29, N. 4, pp. 1-20, 2017.
- [J2] G. Bavota, A. De Lucia, M. Di Penta, R. Oliveto, **F. Palomba**.  
An Experimental Investigation on the Innate Relationship between Quality and Refactoring.  
Elsevier's Journal of Systems and Software (JSS), Vol. 107, pp. 1-14, 2015.
- [J1] **F. Palomba**, G. Bavota, M. Di Penta, R. Oliveto, D. Poshyvanyk, A. De Lucia.  
Mining Version Histories for Detecting Code Smells.  
IEEE Transactions on Software Engineering (TSE), Vol. 41, N. 5, pp. 462-489, 2015.

## 12.2 INTERNATIONAL CONFERENCES

- [C60] G. Catolino, **F. Palomba**, D. Tamburri, A. Serebrenik.  
Understanding Community Smells Variability: A Statistical Approach.  
In Proceedings of the 43<sup>rd</sup> International Conference on Software Engineering (ICSE 2021), in press, Madrid, Spain, 2021.
- [C59] A. Peruma, K. Almalki, C. Newman, M. Mkaouer, A. Ouni, **F. Palomba**.  
TSDetect: An Open-Source Test Smells Detection Tool.  
In Proceedings of the 28<sup>th</sup> ACM Joint Meeting on European Software Engineering Conference and Symposium on the Foundations of Software Engineering (ESEC/FSE 2020), pp. 1650-1654, Sacramento, USA, 2020.
- [C58] G. Grano, C. De Iaco, **F. Palomba**, H. Gall.  
Pizza Versus Pinza: On the Perception and Measurability of Unit Test Code Quality.  
In Proceedings of the 36<sup>th</sup> International Conference on Software Maintenance and Evolution (ICSME 2020), pp. 336-347, Adelaide, Australia, 2020.
- [C57] M. Di Gregorio, D. Di Nucci, **F. Palomba**, G. Vitiello.  
The Making of Accessible Android Applications: An Empirical Study on the State of the Practice.  
In Proceedings of the 36<sup>th</sup> International Conference on Software Maintenance and Evolution (ICSME 2020), pp. 857-861, Adelaide, Australia, 2020.
- [C56] F. Pecorelli, G. Di Lillo, **F. Palomba**, A. De Lucia.  
VITRUM: A Plug-In for the Visualization of Test-Related Metrics.  
In Proceedings of the 15<sup>th</sup> International Conference on Advanced Visual Interfaces (AVI 2020), pp. 1-3, Ischia, Italy, 2020.
- [C55] M. De Stefano, M. Gambardella, F. Pecorelli, **F. Palomba**, A. De Lucia.  
cASpER: A Plug-In for Automated Code Smell Detection and Refactoring.  
In Proceedings of the 15<sup>th</sup> International Conference on Advanced Visual Interfaces (AVI 2020), pp. 1-3, Ischia, Italy, 2020.

- [C54] G. Cascavilla, J. Slabber, **F. Palomba**, D. Di Nucci, D. Tamburri, W.J. van den Heuvel.  
Counterterrorism for Cyber-Physical Spaces: A Computer Vision Approach.  
In Proceedings of the 15<sup>th</sup> International Conference on Advanced Visual Interfaces (AVI 2020), pp. 1-5, Ischia, Italy, 2020.
- [C53] S. Lambiase, A. Cupito, F. Pecorelli, A. De Lucia, **F. Palomba**.  
Just-in-Time Test Smell Detection and Refactoring: The DARTS Project.  
In Proceedings of the 28<sup>th</sup> International Conference on Program Comprehension (ICPC 2020), pp. 441-445, Seoul, South Korea, 2020.
- [C52] E. Iannone, F. Pecorelli, D. Di Nucci, **F. Palomba**, A. De Lucia.  
Refactoring Android-Specific Energy Smells: A Plug-In for Android Studio.  
In Proceedings of the 28<sup>th</sup> International Conference on Program Comprehension (ICPC 2020), pp. 451-455, Seoul, South Korea, 2020.
- [C51] V. Lenarduzzi, **F. Palomba**, D. Taibi, D. Tamburri.  
Open-SZZ: A Free, Open-Source, Web-Accessible Implication of the SZZ Algorithm.  
In Proceedings of the 28<sup>th</sup> International Conference on Program Comprehension (ICPC 2020), pp. 446-450, Seoul, South Korea, 2020.
- [C50] F. Pecorelli, **F. Palomba**, F. Khohm, A. De Lucia.  
Developer-Driven Code Smell Prioritization.  
In Proceedings of the 17<sup>th</sup> International Conference on Mining Software Repositories (MSR 2020), in press, Seoul, South Korea, 2020.
- [C49] F. Pecorelli, G. Catolino, F. Ferrucci, A. De Lucia, **F. Palomba**.  
Testing of Mobile Applications in the Wild: A Large-Scale Empirical Study on Android Apps.  
In Proceedings of the 28<sup>th</sup> International Conference on Program Comprehension (ICPC 2020), pp. 296-307, Seoul, South Korea, 2020.
- [C48] G. Catolino, **F. Palomba**, D. A. Tamburri, A. Serebrenik, F. Ferrucci.  
Refactoring Community Smells in the Wild: The Practitioner's Field Manual.  
In Proceedings of the 42<sup>nd</sup> International Conference on Software Engineering (ICSE 2020), Vol. 2, pp. 25-34, Seoul, South Korea, 2020.
- [C47] L. Di Geronimo, L. Braz, E. Fregnan, **F. Palomba**, A. Bacchelli.  
UI Dark Patterns and Where to Find Them: A Study on Mobile Applications and User Perception.  
In Proceedings of the 38<sup>th</sup> ACM CHI Conference on Human Factors in Computing Systems (CHI), pp. 1-14, Honolulu, USA, 2020.
- [C46] A. Peruma, K. Almalki, C. Newman, M. Mkaouer, A. Ouni, **F. Palomba**.  
On the Distribution of Test Smells in Open-Source Android Applications: An Exploratory Study.  
In Proceedings of the 29<sup>th</sup> International Conference on Computer Science and Software Engineering (CASCON), pp. 193-202, Ontario, Canada, 2020.
- [C45] M. Eck, **F. Palomba**, M. Castelluccio, A. Bacchelli.  
Understanding Flaky Tests: The Developer's Perspective.  
In Proceedings of the 27<sup>th</sup> ACM Joint European Software Engineering Conference and Symposium on the Foundations of Software Engineering (ESEC/FSE), pp. 830-840, Tallinn, Estonia, 2019.
- [C44] D. Serra, G. Grano, **F. Palomba**, F. Ferrucci, H. Gall, A. Bacchelli.  
On the Effectiveness of Manual and Automatic Unit Test Generation: Ten Years Later.  
In Proceedings of the 16<sup>th</sup> International Conference on Mining Software Repositories (MSR 2019), pp. 121-125, Montreal, Canada, 2019.
- [C43] F. Pecorelli, **F. Palomba**, D. Di Nucci, A. De Lucia.  
Comparing Machine Learning and Heuristic Approaches for Metric-Based Code Smell Detection.

- In Proceedings of the 27<sup>th</sup> International Conference on Program Comprehension (ICPC 2019), pp. 93-104, Montreal, Canada, 2019.
- [C42] G. Catolino, **F. Palomba**, D. A. Tamburri, A. Serebrenik, F. Ferrucci.  
Gender Diversity and Women in Software Teams: How do They Affect Community Smells?  
In Proceedings of the 41<sup>st</sup> International Conference on Software Engineering (ICSE 2019), Vol. 2, pp. 11-20, Montreal, Canada, 2019.
- [C41] D. Spadini, **F. Palomba**, T. Baum, S. Hanenberg, M. Bruntink, A. Bacchelli.  
Test-Driven Code Review: An Empirical Study.  
In Proceedings of the 41<sup>st</sup> International Conference on Software Engineering (ICSE 2019), Vol. 1, pp. 1061-1072, Montreal, Canada, 2019.
- [C40] L. Pascarella, D. Spadini, **F. Palomba**, M. Bruntink, A. Bacchelli.  
Information Needs in Contemporary Code Review.  
In Proceedings of the 21<sup>st</sup> International Conference on Computer-Supported Cooperative Work and Social Computing (CSCW 2018), Vol. 1, pp. 202-213, New York, USA, 2018 – **Best Paper Honorable Mention**.
- [C39] V. Kovachenko, **F. Palomba**, A. Bacchelli.  
Mining File Histories: Should We Consider Branches?  
In Proceedings of the 33<sup>th</sup> International Conference on Automated Software Engineering (ASE 2018), Vol. 1, pp. 202-213, Montpellier, France, 2018.
- [C38] C. Vassallo, **F. Palomba**, A. Bacchelli, H. Gall.  
Continuous Code Quality: Are We (Really) Doing That?  
In Proceedings of the 33<sup>th</sup> International Conference on Automated Software Engineering (ASE 2018), Vol. 1, pp. 790-795, Montpellier, France, 2018.
- [C37] C. Vassallo, **F. Palomba**, H. Gall.  
Continuous Refactoring in CI: A Preliminary Study on the Perceived Advantages and Barriers.  
In Proceedings of the 34<sup>th</sup> International Conference on Software Maintenance and Evolution (ICSME 2018), Vol. 1, pp. 564-568, Madrid, Spain, 2018.
- [C36] **F. Palomba**, A. Zaidman, A. De Lucia.  
Automatic Test Smell Detection using Information Retrieval Techniques.  
In Proceedings of the 34<sup>th</sup> International Conference on Software Maintenance and Evolution (ICSME 2018), Vol. 1, pp. 311-322, Madrid, Spain, 2018.
- [C35] D. Spadini, **F. Palomba**, A. Zaidman, M. Bruntink, A. Bacchelli.  
On the Relation of Test Smells to Software Code Quality.  
In Proceedings of the 34<sup>th</sup> International Conference on Software Maintenance and Evolution (ICSME 2018), Vol. 1, pp. 1-12, Madrid, Spain, 2018.
- [C34] D. Di Nucci, **F. Palomba**, A. De Lucia.  
Evaluating the Adaptive Selection of Classifiers for Cross-Project Bug Prediction  
In Proceedings of the 1<sup>st</sup> International Workshop on Realizing Artificial Intelligence Synergies in Software Engineering (RAISE 2018), Vol. 2, pp. 48-54, Gothenburg, Sweden, 2018.
- [C33] P. Salza, **F. Palomba**, D. Di Nucci, C. D’Uva, A. De Lucia, F. Ferrucci.  
Do Developers Update Third-Party Libraries in Mobile Apps?  
In Proceedings of the 26<sup>th</sup> International Conference on Program Comprehension (ICPC 2018), Vol. 1, pp. 255-265, Gothenburg, Sweden, 2018.
- [C32] L. Pascarella, **F. Palomba**, M. Di Penta, A. Bacchelli.  
How is Video Game Development Different from Software Development in Open Sources?  
In Proceedings of the 15<sup>th</sup> International Conference on Mining Software Repositories (MSR 2018), Vol. 1, pp. 392-402, Gothenburg, Sweden, 2018.

- [C31] D. A. Tamburri, D. Di Nucci, L. Di Giacomo, **F. Palomba**.  
Omniscient DevOps Analytics.  
In Proceedings of the 1<sup>st</sup> International Workshop on Software Engineering Aspects of Continuous Development and New Paradigms of Software Production and Development (DEVOPS 2018), pp. 48-59, Chateau de Villebrumier, France 2018.
- [C30] L. Pascarella, F. Geiger, **F. Palomba**, D. Di Nucci, I. Malavolta, A. Bacchelli.  
Self-Reported Activities of Android Developers.  
In Proceedings of the IEEE/ACM International Conference on Mobile Software Engineering and Systems (MobileSoft 2018), Vol. 1, pp. 144-155, Gothenburg, Sweden, 2018.
- [C29] G. Grano, A. Ciurumelea, S. Panichella, **F. Palomba**, H. Gall.  
BECLoMA: Augmenting Stack Traces with User Review Information  
In Proceedings of the Tool Demo Track 25<sup>th</sup> International Conference on Software Analysis, Evolution, and Reengineering (SANER 2018), Vol. 1, pp. 522-526, Campobasso, Italy, 2018 – **Best Tool Demo Paper Award**.
- [C28] D. Di Nucci, **F. Palomba**, D. A. Tamburri, A. Serebrenik, A. De Lucia.  
Detecting Code Smells using Machine Learning Techniques: Are We There Yet?  
In Proceedings of the RENE Track of the 25<sup>th</sup> International Conference on Software Analysis, Evolution, and Reengineering (SANER 2018), Vol. 1, pp. 612-621, Campobasso, Italy, 2018.
- [C27] L. Pascarella, **F. Palomba**, A. Bacchelli.  
Re-evaluating Method-level Bug Prediction  
In Proceedings of the RENE Track of the 25<sup>th</sup> International Conference on Software Analysis, Evolution, and Reengineering (SANER 2018), Vol. 1, pp. 592-601, Campobasso, Italy, 2018.
- [C26] C. Vassallo, S. Panichella, **F. Palomba**, S. Proksch, A. Zaidman, H. Gall.  
Context is King: The Developers' Perspective on the Usage of Statis Analysis Tools  
In Proceedings of the 25<sup>th</sup> International Conference on Software Analysis, Evolution, and Reengineering (SANER 2018), Vol. 1, pp. 38-49, Campobasso, Italy, 2018.
- [C25] G. Grano, A. Ciurumelea, S. Panichella, **F. Palomba**, H. Gall.  
Exploring the Integration of User Feedback in Automated Testing of Android Applications  
In Proceedings of the 25<sup>th</sup> International Conference on Software Analysis, Evolution, and Reengineering (SANER 2018), Vol. 1, pp. 72-83, Campobasso, Italy, 2018.
- [C24] **F. Palomba**, A. Serebrenik, A. Zaidman.  
Social Debt Analytics for Improving the Management of Software Evolution Tasks.  
In Proceedings of the 16<sup>th</sup> Belgian-Netherlands Software Evolution Symposium (BENEVOL 2017), pp. 18-21, Antwerp, Belgium, 2017.
- [C23] **F. Palomba**, A. Zaidman.  
Does Refactoring of Test Smells Induce Fixing Flaky Tests?  
In Proceedings of the 33<sup>rd</sup> International Conference on Software Maintenance and Evolution (ICSME 2017), Vol. 1, pp. 1-12, Shangai, China, 2017 – **IEEE/TCSE Distinguished Paper Award**.
- [C22] G. Catolino, **F. Palomba**, A. De Lucia, F. Ferrucci, A. Zaidman.  
Developer-Related Factors in Change Prediction: An Empirical Assessment  
In Proceedings of the 25<sup>st</sup> International Conference on Program Comprehension (ICPC 2017), Vol. 1, pp. 186-195, Buenos Aires, Argentina, 2017.
- [C21] **F. Palomba**, A. Zaidman, R. Oliveto, A. De Lucia.  
An Exploratory Study on the Relationship between Changes and Refactoring  
In Proceedings of the 25<sup>st</sup> International Conference on Program Comprehension (ICPC 2017), Vol. 1, pp. 176-185, Buenos Aires, Argentina, 2017.

- [C20] **F. Palomba**, R. Oliveto, A. De Lucia.  
Investigating Code Smell Co-Occurrences using Association Rule Mining: A Replicated Study  
In Proceedings of the 1<sup>st</sup> International Workshop on Machine Learning Techniques for Software Quality Evaluation (MaLTesQuE 2017), Vol. 2, pp. 8-13, Klagenfurt, Austria, 2017.
- [C19] **F. Palomba**, D. Di Nucci, A. Panichella, A. Zaidman, A. De Lucia.  
Lightweight Detection of Android-specific Code Smells: The aDoctor Project  
In Proceedings of the 24<sup>th</sup> IEEE International Conference on Software Analysis, Evolution, and Reengineering (SANER 2017), Vol. 1, pp. 487-491, Klagenfurt, Austria, 2017.
- [C18] D. Di Nucci, **F. Palomba**, A. Panichella, A. Zaidman, A. De Lucia.  
PETrA: A Software-based Tool for Estimating the Energy Consumption of Android Applications.  
In Proceedings of the 39<sup>th</sup> IEEE International Conference on Software Engineering (ICSE 2017), Vol. 2, pp. 3-6, Buenos Aires, Argentina, 2017.
- [C17] D. Di Nucci, **F. Palomba**, A. Panichella, A. Zaidman, A. De Lucia.  
Software-based Energy Profiling of Android Apps: Simple, Efficient and Reliable?  
In Proceedings of the 24<sup>th</sup> IEEE International Conference on Software Analysis, Evolution, and Reengineering (SANER 2017), Vol. 1, pp. 103-114, Klagenfurt, Austria, 2017.
- [C16] **F. Palomba**, P. Salza, A. Ciurumelea, S. Panichella, H. Gall, F. Ferrucci, A. De Lucia.  
Recommending and Localizing Code Changes for Mobile Apps based on User Reviews.  
In proceedings of the 39<sup>th</sup> IEEE International Conference on Software Engineering (ICSE 2017), Vol. 1, pp. 106-117, Buenos Aires, Argentina, 2017.
- [C15] **F. Palomba**.  
Alternative Sources of Information for Code Smell Detection: Postcards from Far Away.  
In Proceedings of the 32<sup>nd</sup> IEEE International Conference on Software Maintenance and Evolution (ICSME 2016), Vol. 1, pp. 636-640, Raleigh, USA, 2016.
- [C14] M. Tufano, **F. Palomba**, G. Bavota, M. Di Penta, R. Oliveto, A. De Lucia, D. Poshyvanyk.  
An Empirical Investigation Into the Nature of Test Smells.  
In Proceedings of the 31<sup>th</sup> IEEE/ACM International Conference on Automated Software Engineering (ASE 2016), Vol. 1, pp. 4-15, Singapore, Singapore, 2016.
- [C13] **F. Palomba**, M. Zanoni, F. Arcelli Fontana, A. De Lucia, R. Oliveto.  
Smells like Teen Spirit: Improving Bug Prediction Performance using the Intensity of Code Smells.  
In Proceedings of the 32<sup>nd</sup> IEEE International Conference on Software Maintenance and Evolution (ICSME 2016), Vol. 1, pp. 244-255, Raleigh, USA, 2016.
- [C12] **F. Palomba**, A. Panichella, A. Zaidman, R. Oliveto, A. De Lucia.  
Automatic Test Case Generation: What If Test Code Quality Matters?  
In Proceedings of the ACM International Symposium on Software Testing and Analysis (ISSTA 2016), Vol. 1, pp. 130-141, Saarbrücken, Germany, 2016.
- [C11] **F. Palomba**, A. Panichella, A. De Lucia, R. Oliveto, A. Zaidman.  
A Textual-based Technique for Smell Detection.  
In Proceedings of the 24<sup>th</sup> ACM/IEEE International Conference on Program Comprehension (ICPC 2016), Vol. 1, pp. 1-10, Austin, USA, 2016.
- [C10] **F. Palomba**, D. Di Nucci, A. Panichella, R. Oliveto, A. De Lucia.  
On the Diffusion of Test Smells in Automatically Generated Test Code: An Empirical Study.  
In Proceedings of the 9<sup>th</sup> ACM/IEEE International Workshop on Search Based Software Testing (SBST 2016), Vol. 2, pp. 5-14, Austin, USA, 2016.
- [C9] **F. Palomba**, M. Linares Vasquez, G. Bavota, R. Oliveto, M. Di Penta, D. Poshyvanyk, A. De Lucia.  
User Reviews Matter! Tracking Crowdsourced Reviews to Support Evolution of Successful Apps.

- In Proceedings of the 31<sup>st</sup> IEEE International Conference on Software Maintenance and Evolution (ICSME 2015), Vol. 1, pp. 291-300, Bremen, Germany, 2015.
- [C8] D. Di Nucci, **F. Palomba**, S. Siravo, G. Bavota, R. Oliveto, A. De Lucia.  
On the Role of Developer's Scattered Changes in Bug Prediction.  
In Proceedings of the 31<sup>st</sup> IEEE International Conference on Software Maintenance and Evolution (ICSME 2015), Vol. 1, pp. 241-250, Bremen, Germany, 2015.
- [C7] **F. Palomba**, D. Di Nucci, M. Tufano, G. Bavota, R. Oliveto, D. Poshyvanyk, A. De Lucia.  
Landfill: an Open Dataset of Code Smells with Public Evaluation.  
In Proceedings of the 12<sup>th</sup> IEEE/ACM Working Conference on Mining Software Repositories (MSR 2015), Vol 2., pp. 482-485, Florence, Italy, 2015.
- [C6] **F. Palomba**, M. Tufano, G. Bavota, R. Oliveto, A. Marcus, D. Poshyvanyk, A. De Lucia.  
Extract Package Refactoring in ARIES.  
In Proceedings of the 37<sup>th</sup> IEEE/ACM International Conference on Software Engineering (ICSE 2015) – IEEE Press. Formal Tool Demo Track, Vol. 2, pp. , 669-672, Florence, Italy, 2015.
- [C5] **F. Palomba**.  
Textual Analysis for Code Smell Detection.  
In Proceedings of the 37<sup>th</sup> IEEE/ACM International Conference on Software Engineering (ICSE 2015) – Student Research Competition (SRC) Track, Vol. 2., pp. 769-771, Florence, Italy, 2015. - **ACM/SIGSOFT Student Research Competition Award – Bronze Medal**.
- [C4] M. Tufano, **F. Palomba**, G. Bavota, R. Oliveto, M. Di Penta, A. De Lucia, D. Poshyvanyk.  
When and Why Your Code Starts to Smell Bad.  
In Proceedings of the 37<sup>th</sup> IEEE/ACM International Conference on Software Engineering (ICSE 2015), Vol. 1, pp. 403-414, Florence, Italy, 2015. - **ACM/SIGSOFT Distinguished Paper Award**
- [C3] **F. Palomba**, G. Bavota, M. Di Penta, R. Oliveto, A. De Lucia.  
Do They Really Smell Bad? A Study on Developers' Perception of Bad Code Smells.  
In Proceedings of the 30<sup>th</sup> IEEE International Conference on Software Maintenance and Evolution (ICSME 2014), Vol. 1, pp. 101-110, Victoria, Canada, 2014.
- [C2] **F. Palomba**, G. Bavota, M. Di Penta, R. Oliveto, A. De Lucia, D. Poshyvanyk.  
Detecting Bad Smells in Source Code Using Change History Information.  
In Proceedings of the 28<sup>th</sup> IEEE/ACM International Conference on Automated Software Engineering (ASE 2013), Vol. 1, pp. 268-278, Palo Alto, California, 2013. - **ACM/SIGSOFT Distinguished Paper Award**
- [C1] G. Bavota, A. De Lucia, A. Marcus, R. Oliveto, **F. Palomba**.  
Supporting Extract Class Refactoring in Eclipse: The ARIES Project.  
In Proceedings of the 34<sup>th</sup> International Conference on Software Engineering (ICSE 2012), Vol. 2, pp. 1419-1422, Zurich, Switzerland, 2012.

### 12.3 BOOK CHAPTERS

- [B1] **F. Palomba**, G. Bavota, R. Oliveto, and A. De Lucia.  
Anti-Pattern Detection: Methods, Challenges, and Open Issues.  
In Advances in Computers, Volume 95, pp. 201-238

### 12.4 ITALIAN WORKSHOPS

- [W1] G. Bavota, A. De Lucia, A. Marcus, R. Oliveto, **F. Palomba**, M. Tufano.  
ARIES: An Eclipse plug-in to Support Extract Class Refactoring.

In Proceedings of 8<sup>th</sup> Italian Workshop on Eclipse Technologies, Crema, Italy, 2013. LCNS Press.

[W2] G. Bavota, A. De Lucia, R. Oliveto, **F. Palomba**, A. Panichella.

Textual Analysis and Software Quality: Challenges and Opportunities.

In Proceedings of 50<sup>th</sup> Italian Workshop on Computing and Distributed Computing, Salerno, Italy, 2013.

Fisciano, 19/04/2021

A handwritten signature in black ink, reading "Fabio Palomba". The signature is written in a cursive style with a long horizontal stroke at the end.