Alberto Bacchelli

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publication indexes

http://GoogleScholar
http://DBLP

professional memberships

ACM

about

Dr. Bacchelli is a full professor of **Empirical Software Engineering** at the University of Zurich, Switzerland, where he leads the Zurich Empirical Software Engineering Team (ZEST).

His broader research vision is to innovate software engineering, through fundamental empirical research and software tools. His goal is to increase our scientific knowledge of today's software development and to design, based on strong empirical evidence and theory, the right tools, languages, and development environments for high-quality software engineering.

He has received the MSR Ric Holt Early Career Achievement Award 2020 for his seminal contributions to modern code review. He has received the ACM SIGSOFT Impact Paper award 2025 for his ICSE 2013 paper on modern code review. He has received the 10-year Most Influential Paper award from SANER for his work on extending IDEs with an AI-based recommendation tool. He is the recipient of in total eight Best Paper Awards and ACM SIGSOFT Distinguished Paper Awards, awarded from the top academic venues in SE and CSCW.

education

04.2009–06.2013	**Ph.D.** in Informatics Thesis: *Mining Unstructured Software Data* Supervisor: *Prof. Dr. Michele Lanza*	Università della Svizzera Italiana, Switzerland
04.2006–03.2008	**M.Sc.** in Computer Science Final grade: *110/110 cum laude*	University of Bologna, Italy
09.2006–06.2007	**M.Sc. year** within EU Erasmus program Main subjects: Software Engineering and Probabilistic Models	Universitè Libre de Bruxelles, Belgium
09.2002–03.2006	**B.Sc.** in Computer Science Final grade: *110/110 cum laude*	University of Bologna, Italy

professional appointments

04.2026–now	**Full professor (with tenure)**	University of Zurich, Switzerland
10.2020–03.2026	**Associate professor (with tenure)**	University of Zurich, Switzerland
08.2017–09.2020	**SNSF Assistant professor**	University of Zurich, Switzerland
09.2013–08.2017	**Assistant professor (tenured after tenure-track)**	TU Delft, The Netherlands
04–08.2013	**Microsoft Research intern**	Microsoft Research, Redmond, USA
05–08.2012	**Microsoft Research intern**	Microsoft Research, Redmond, USA
04.2008–04.2009	**Software Engineer**	CINECA, Italy

research

awards and honors

2025

SIGSOFT Impact Award — ACM

"For providing foundational understanding of modern code review, advancing the state of practice, and charting the course of research in code review through empirical investigations."

ACM SIGSOFT Distinguished Paper Award — ICPC 2025

"Code Review Comprehension: Reviewing Strategies Seen Through Code Comprehension Theories"

2023

SANER Most Influential Paper Award — SANER 2023

This award is given to a research paper published ten years earlier at the conference and that has had a significant and lasting impact on its field since its publication. It has been awarded for the paper "Leveraging Crowd Knowledge for Software Comprehension and Development" originally published at CSMR 2013

2022

ACM SIGSOFT Distinguished Paper Award — ESEC/FSE 2022

"First Come First Served: The Impact of File Position on Code Review"

2021

ACM SIGSOFT Distinguished Paper Award — ICSE 2021

"Why Don't Developers Detect Improper Input Validation?`'; DROP TABLE Papers; -- `"

2020

Mining Software Repositories Ric Holt Early Career Achievement Award — MSR 2020

Awarded to junior researchers who provided outstanding contributions in the field.

ACM SIGSOFT Distinguished Artifact Award — ICSE 2020

Artifact of "Primers or Reminders? The Effects of Existing Review Comments on Code Review"

2018

Best Paper Honorable Mention — CSCW 2018

"Information Needs in Contemporary Code Review"

2017

ACM SIGSOFT Distinguished Paper Award — MSR 2017

"Classifying code comments in Java open-source software systems"

2016

ACM SIGSOFT Distinguished Paper Award — ICSE 2016

"Work Practices and Challenges in Pull-Based Development: The Contributor's Perspective"

2015

Best Paper Award — CSCW 2015

"Supporting Developers' Coordination in The IDE"

2014

Google Faculty Research Award — Google 2014

Program focused on funding world-class technical research in Computer Science and Engineering.

2009

Best Paper Award — WCRE 2009

"Benchmarking Lightweight Techniques to Link E-Mails and Source Code"

2008

Best Paper Award — ICSEA 2008

"On the Effectiveness of Manual and Automatic Unit Test Generation"

grants and funding

2021

SNSF Intl. Co-investigator Project - **Software Engineers as Quality Experts** — co-PI – ca. 500k CHF of 760k

Investigating Expertise in Software Quality.

2020

SNSF Project - **Enhanced Code Review** — PI – approx. 800k CHF

Using Context and Learning from Review Experience.

2019

Hasler Stiftung - **Test Authority: A New Path to Measure Test Quality** — Co-PI – approx. 50k CHF

Defining a new way to measure test quality beyond code coverage.

2018

AdNovum - **Knowledge Awareness in Solution Development Lifecycle** — Co-PI – 60k CHF

On software artifacts traceability for code reuse.

2017

SNSF Professorship - **Data-driven Contemporary Code Review** — PI – ca. 1.5M CHF

On transforming code review into an engineering approach.

2016

STW Take Off - **PReview Code** — PI – 40k EUR

On an approach to improve the understandability of changes under review.

2015

NWO Top-1 grant - **Persistent Code Reviewing** — Co-PI – ca. 650k EUR

On investigating techniques to persist and generalize code review efforts.

2014

EU Horizon 2020 MSCA-ITN-2014-EID - **SENECA** — Co-PI – 255k EUR of 2.2M EUR

On data science for software engineering in the cloud.

INRIA Associate Team - **Improving code review tools** — Co-PI – 10K EUR

On creating novel code review tools for dynamically typed languages.

Google Faculty Research Award — PI – approx. 50k EUR

On investigating the code review process.

professional service

conferences

2027 **FSE** (Area chair)
2026 **ASE** (Area chair), **FSE** (Tool Demonstrations co-chair), **ICSE** (Area chair)
2025 **ASE** (Area chair), **ICSE** (PC member)
2024 **ASE** (PC member), **ICSE** (PC member), **MSR** (PC co-chair).
2023 **ASE** (PC member), **ESEC/FSE** (PC member), **ICSE** (PC member), **MAPS** (PC member), **MSR** (MSR Award co-chair)
2022 **ASE** (PC member), **ICSE** (PC member), **MSR** (PC member, SC member, MSR Award co-chair)
2021 **ASE** (PC member), **EASE** (PC member), **ESEC/FSE** (PC member), **MSR** (SC member)
2020 **ASE** (PC member), **CSCW** (Associate chair), **MSR** (PC & SC member)
2019 **ASE** (PC member), **CSCW** (Associate chair), **ESEC/FSE** (PC member), **ICPC** (PC member), **ICSME** (PC member), **MSR** (PC & SC member)
2018 **ASE** (PC member), **ESEC/FSE** (PC member), **ICPC** (PC member), **MSR** (PC & SC member)
2017 **ESEC/FSE** (PC member), **ICSE** (PC member)
2016 **ICSE** (PC member), **ICPC** (PC member), **ICSME** (Tool demo track, co-chair), **IWESEP** (PC member), **MSR** (PC member), **MUD** (SC member), **SANER** (ERA track, co-chair),
2015 **ASE** (Tool demo track, PC member), **FSE** (Tool demo track, PC member), **ICPC** (PC member), **ICSE** (social networking co-chair), **ICSME** (PC member), **ISEC** (PC member), **MSR** (PC member), **MUD** (SC member), **SANER** (PC member)
2014 **ACM SRC** (PC member), **CSEE&T** (PC member), **CSMR-WCRE** (PC member), **ECOOP** (artifact evaluation, PC member), **ICSME** (PC member), **MSR** (PC member), **MUD** (co-organizer)
2013 **CSS&T** (PC member), **CSMR** (ERA track, PC member) **ICPC** (ERA track, PC member), **ICSM** (Tool demo track, PC member), **MSR** (Mining challenge chair), **MUD** (co-organizer), **NaturaLISE** (co-organizer), **WCRE** (PC member)
2012 **CSEE&T** (PC member), **CSMR** (publicity chair), **ICSM** (publicity chair), **MSR** (Mining challenge, PC member), **MUD** (co-organizer)

journal referee

TOSEM ACM Transactions on Software Engineering and Methodology, ACM.
TSE IEEE Transactions on Software Engineering, IEEE Computer Society.
EMSE Empirical Software Engineering: An International Journal, Springer.
JSEP Journal of Software: Evolution and Process (formerly known as Journal on Software Maintenance and Evolution: Research and Practice, JSME), John Wiley & Sons.
JSS Journal of Systems and Software, Elsevier.
PeerJ PeerJ Computer Science.

reviewer for funding organizations

Chan Zuckerberg Initiative Reviewer for the 'Essential Open Source Software for Science initiative'. Years: 2018—2023.
DFG, German Research Foundation Reviewer for Project Proposals. Year 2019.
SNSF, Swiss National Science Foundation Reviewer for Project Proposals. Year 2014.

miscellanea

ACM SIGSOFT Committee member for the Doctoral Dissertation Award 2020.

teaching

ongoing

Software Systems Reliability Lab (M.Sc.)	University of Zurich (yearly, since 2025)
Fundamentals of Software Systems (M.Sc.)	University of Zurich (yearly, since 2021)
Software Construction (B.Sc.)	University of Zurich (yearly since 2019)
Software Testing (B. Sc. and M.Sc.)	University of Zurich (yearly, since 2018)
SHSG Summer School (B. Sc. and M.Sc.)	University of St. Gallen (yearly, since 2018)
Data Science for Software Engineering (B.Sc. and M.Sc.)	University of Zurich (yearly, since 2017)

past

UZH/DSI Programming Bootcamp	University of Zurich (2022, 2023, 2024)
Intermediate Python Programming	University of Zurich (2023, 2024)
Fuzz Testing (B.Sc. and M.Sc.)	University of Zurich (2021)
Mining Software Repositories (M.Sc.)	TU Delft (yearly, from 2014 until 2017)
Context Project (B.Sc.)	TU Delft (yearly, from 2014 until 2017)
Software Engineering Methods (B.Sc.)	TU Delft (yearly, from 2013 until 2017)

Ph.D. student supervision

in progress

Fotios Alexandridis — since Sep 2025, Ph.D. student

Security Vulnerability Detection

Neha Singh — since Feb 2024, Ph.D. student

Code review expertise

Konstantinos Kitsios — since Sep 2023, Ph.D. student

AI-based support for software testing

Shirin Pirouzkhah — since Sep 2022, Ph.D. student

AI-assisted code review

2024

Pavlína Wurzelová — since Jun 2018, Ph.D. student

Human-centric code review: Exploring Developers' Performance, Experience and Productivity

2023

Enrico Fregnan — Aug 2018 - Mar 2023, Ph.D.

Assessing review outcomes and cognitive factors to improve code review

2022

Larissa Barbosa — Nov 2018 - Dec 2022, Ph.D.

Secure Code Review : Supporting Developers in Secure Code Review

2021

Vladimir Kovalenko — Oct 2016 - Mar 2021, Ph.D.

Data-Driven Software Engineering

Davide Spadini — Jul 2016 - Mar 2021, Ph.D.

Supporting Quality In Test Code For Higher Quality Software Systems

2020

Luca Pascarella — Jan 2016 - Sep 2020, Ph.D.

Augmented fine-grained defect prediction for code review

2019

Anand Ashok Sawant — Jan 2016 - Oct 2019, Ph.D.

Mining fine-grained large-scale API usage

Complete list of publications - Alberto Bacchelli

The ACM/IEEE International Conference on Software Engineering (ICSE), the ACM SIGSOFT International Symposium on the Foundations of Software Engineering (ESEC/FSE), and the IEEE/ACM International Conference on Automated Software Engineering (ASE) are the leading venues in software engineering. I have published more than twenty papers in their main technical tracks. Among these, three received ACM SIGSOFT Distinguished Paper Awards (ICSE 2016, ICSE 2021, ESEC/FSE 2022), two were nominated for the award (ICSE 2013, FSE 2018), and one received an ACM SIGSOFT Distinguished Artifact Award (ICSE 2020).

The ACM CHI Conference on Human Factors in Computing Systems (CHI) and the ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW) are premier venues in human-computer interaction and collaborative systems. I have published five papers in their main tracks, including one Best Paper Award (CSCW 2015) and one Best Paper Honorable Mention (CSCW 2018).

According to Google scholar (April 2026), my h-index is 50 with 10,046 citations showing an upward trend.

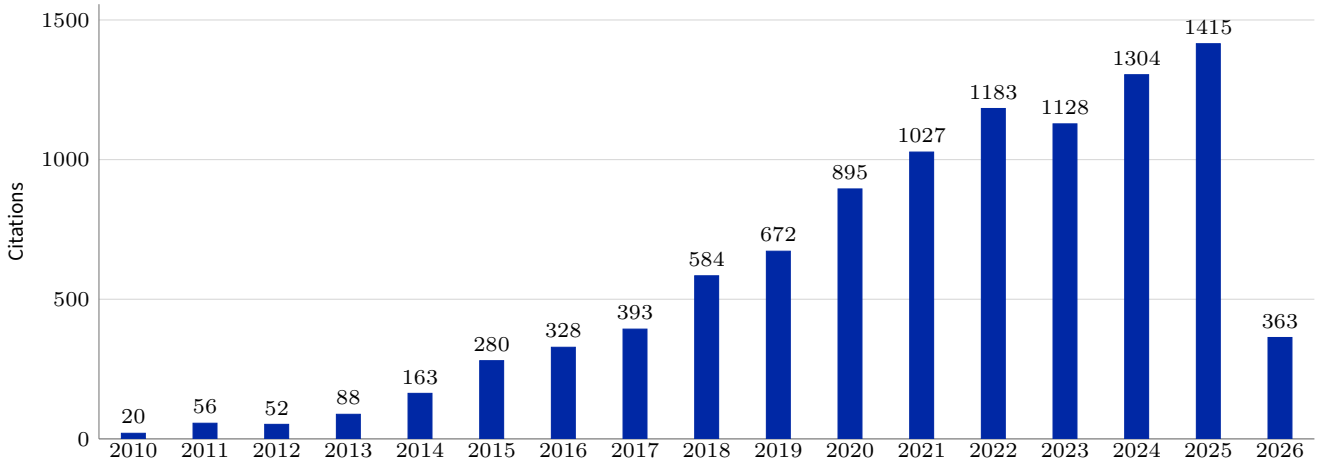

Figure 1: Citations per year, according to Google Scholar (April 2026).

international peer-reviewed conference papers

[ICSE 2026] On Interaction Effects in Greybox Fuzzing
Konstantinos Kitsios, Marcel Böhme, Alberto Bacchelli
48th IEEE/ACM International Conference on Software Engineering, forthcoming, 2026

[FSE 2026] The Effect of Complexity and Provenance on Code Review Decisions: Evidence from a Controlled Experiment
Neha Singh, Francesco Sovrano, Vincent Hellendoorn, Alberto Bacchelli
ACM International Conference on the Foundations of Software Engineering, forthcoming, 2026

[FSE 2026] Mitigating Prompt-Induced Cognitive Biases in General-Purpose AI for Software Engineering
Francesco Sovrano, Gabriele Dominici, Alberto Bacchelli
ACM International Conference on the Foundations of Software Engineering, forthcoming, 2026

[FSE 2025] Empirically Evaluating the Impact of Object-Centric Breakpoints on the Debugging of Object-Oriented Programs
Valentin Bourcier, Pooja Rani, Maximilian Ignacio Willembrinck Santander, Alberto Bacchelli, Steven Costiou
ACM International Conference on the Foundations of Software Engineering, pp. 914–935, 2025

[ICPC 2025] Code Review Comprehension: Reviewing Strategies Seen Through Code Comprehension Theories
Pavlína Wurzel Gonçalves, Pooja Rani, Margaret-Anne Storey, Diomidis Spinellis, Alberto Bacchelli
33rd IEEE/ACM International Conference on Program Comprehension, pp. 589–601, 2025
ACM SIGSOFT Distinguished Paper Award

[ASE 2025] Automated Generation of Issue-Reproducing Tests by Combining LLMs and Search-Based Testing
Konstantinos Kitsios, Marco Castelluccio, Alberto Bacchelli

40th IEEE/ACM International Conference on Automated Software Engineering, in press, 2025

[ASE 2025] Detecting Semantic Clones of Unseen Functionality

Konstantinos Kitsios, Francesco Sovrano, Earl T. Barr, Alberto Bacchelli

40th IEEE/ACM International Conference on Automated Software Engineering, in press, 2025

[FSE 2025] Large Language Models for In-File Vulnerability Localization can be "Lost in the End"

Francesco Sovrano, Adam Bauer, Alberto Bacchelli

ACM International Conference on the Foundations of Software Engineering, pp. 891–913, 2025

[ICSE 2024 - SEIP] Mind the Gap: What Working With Developers on Fuzz Tests Taught Us About Coverage Gaps

Marco Brandt, Christian Holler, Jason Kratzer, Andy Zaidman, Alberto Bacchelli

46th IEEE/ACM International Conference on Software Engineering, Software Engineering in Practice Track, pp. 157–167, 2024

[ICSE 2024 - SEIS] Energy Patterns for Web: An Exploratory Study

Pooja Rani, Jonas Zellweger, Veronika Kousadianos, Luís Cruz, Timo Kehrer, Alberto Bacchelli

46th IEEE/ACM International Conference on Software Engineering, Software Engineering in Society Track, pp. 12–22, 2024

[ICSE 2024 - SEIS] An Empirical Study on Compliance with Ranking Transparency in the Software Documentation of EU Online Platforms

Francesco Sovrano, Michaël Lognoul, Alberto Bacchelli

46th IEEE/ACM International Conference on Software Engineering, Software Engineering in Society Track, pp. 46–56, 2024

[ICSE 2024 - SEIP] Constructive Code Review: Managing the Impact of Interpersonal Conflicts in Practice

Pavlína Wurzel Gonçalves, Joao S. V. Gonçalves, Alberto Bacchelli

46th IEEE/ACM International Conference on Software Engineering, Software Engineering in Practice Track, pp. 334–345, 2024

[ASE 2024] GPP: A Graph-Powered Prioritizer for Code Review Requests

Lanxin Yang, Jinwei Xu, He Zhang, Fanghao Wu, Jun Lyu, Yue Li, Alberto Bacchelli

39th IEEE/ACM International Conference on Automated Software Engineering, pp. 104–116, 2024

[CSCW 2023] Competencies for Code Review

Pavlína Wurzel Gonçalves, Gül Çalikli, Alexander Serebrenik, Alberto Bacchelli

26th ACM Conference On Computer-Supported Cooperative Work And Social Computing, 38:1–38:33, 2023

[SANER 2023] Evaluating Learning-to-Rank Models for Prioritizing Code Review Requests using Process Simulation

Lanxin Yang, Bohan Liu, Junyu Jia, Junming Xue, Jinwei Xu, Alberto Bacchelli, He Zhang

30th IEEE International Conference on Software Analysis, Evolution and Reengineering, pp. 461–472, 2023

[ESEC/FSE 2023] EvaCRC: Evaluating Code Review Comments

Lanxin Yang, Jinwei Xu, Yifan Zhang, He Zhang, Alberto Bacchelli

31st ACM Joint European Software Engineering Conference and Symposium on the Foundations of Software Engineering, pp. 275–287, 2023

[CSCW 2022] Interpersonal Conflicts During Code Review: Developers' Experience and Practices

Pavlína Wurzel Gonçalves, Gül Çalikli, Alberto Bacchelli

25th ACM Conference On Computer-Supported Cooperative Work And Social Computing, 98:1–98:33, 2022

[ESEM 2022] An Exploratory Study on Regression Vulnerabilities

Larissa Braz, Enrico Fregnan, Vivek Arora, Alberto Bacchelli

16th ACM/IEEE International Symposium on Empirical Software Engineering and Measurement, pp. 12–22, 2022

[ICSE 2022] Less is More: Supporting Developers in Vulnerability Detection during Code Review

Larissa Braz, Christian Aeberhard, Gül Çalikli, Alberto Bacchelli

44th ACM/IEEE International Conference on Software Engineering, pp. 1317–1329, 2022

[ESEC/FSE 2022] First Come First Served: The Impact of File Position on Code Review

Enrico Fregnan, Larissa Braz, Marco D'Ambros, Gül Çalikli, Alberto Bacchelli

30th ACM Joint European Software Engineering Conference and Symposium on the Foundations of Software Engineering, pp. 483–494, 2022

ACM SIGSOFT Distinguished Paper Award

[ESEC/FSE 2022] Software Security during Modern Code Review: The Developer's Perspective

Larissa Braz, Alberto Bacchelli

30th ACM Joint European Software Engineering Conference and Symposium on the Foundations of Software Engineering, pp. 810–821, 2022

[ICSE 2021] Why don't Developers Detect Improper Input Validation?`'; DROP TABLE Papers;--`

Larissa Braz, Enrico Fregnan, Gül Çalikli, Alberto Bacchelli

43rd ACM/IEEE International Conference on Software Engineering, pp. 499–511, 2021

ACM SIGSOFT Distinguished Paper Award

[ESEC/FSE 2021] Authorship Attribution of Source Code: A Language-Agnostic Approach and Applicability in Software Engineering
Egor Bogomolov, Vladimir Kovalenko, Yurii Rebryk, Alberto Bacchelli, Timofey Bryksin
29th ACM Joint European Software Engineering Conference and Symposium on the Foundations of Software Engineering, pp. 932–944, 2021

[VISSOFT 2021] ChangeViz: Enhancing the GitHub Pull Request Interface with Method Call Information
Lorenzo Gasparini, Enrico Fregnan, Larissa Braz, Alberto Bacchelli
9th IEEE Working Conference on Software Visualization, pp. 115–119, 2021

[CHI 2020] UI Dark Patterns and Where to Find Them
Linda Di Geronimo, Larissa Braz, Fabio Palomba, Enrico Fregnan, Alberto Bacchelli
ACM CHI Conference on Human Factors in Computing Systems, pp. 1–14, 2020

[ICSE 2020] Primers or Reminders? The Effects of Existing Review Comments on Code Review
Davide Spadini, Gül Çalikli, Alberto Bacchelli
42nd ACM/IEEE International Conference on Software Engineering, pp. 1171–1182, 2020
ACM SIGSOFT Distinguished Artifact Award

[MSR 2020] Investigating Severity Thresholds for Test Smells
Davide Spadini, Martin Schvarcbacher, Ana Oprescu, Magiel Bruntink, Alberto Bacchelli
17th International Conference on Mining Software Repositories, pp. 311–321, 2020

[ICSE 2019] When Code Completion Fails: A Case Study On Real-World Completions
Vincent Hellendoorn, Sebastian Proksch, Harald C. Gall, Alberto Bacchelli
41st ACM/IEEE International Conference on Software Engineering, pp. 960–970, 2019

[ICSE 2019] Test-Driven Code Review: An Empirical Study
Davide Spadini, Fabio Palomba, Tobias Baum, Stefan Hanenberg, Magiel Bruntink, Alberto Bacchelli
41st ACM/IEEE International Conference on Software Engineering, pp. 1061–1072, 2019

[MSR 2019 - Tool] PathMiner: A Library for Mining of Path-Based Representations of Code
Vladimir Kovalenko, Egor Bogomolov, Timofey Bryksin, Alberto Bacchelli
16th International Conference on Mining Software Repositories, pp. 13–17, 2019

[MSR 2019] On the Effectiveness of Manual and Automatic Unit Test Generation: Ten Years Later
Domenico Serra, Giovanni Grano, Fabio Palomba, Filomena Ferrucci, Harald C. Gall, Alberto Bacchelli
16th International Conference on Mining Software Repositories, pp. 121–125, 2019

[ESEC/FSE 2019] Understanding Flaky Tests: The Developer's Perspective
Moritz Eck, Fabio Palomba, Marco Castelluccio, Alberto Bacchelli
27th ACM Joint European Software Engineering Conference and Symposium on the Foundations of Software Engineering, pp. 830–840, 2019

[CSCW 2018] Information Needs in Contemporary Code Review
Luca Pascarella, Davide Spadini, Fabio Palomba, Magiel Bruntink, Alberto Bacchelli
21st ACM conference on Computer-Supported Cooperative Work and Social Computing, 135:1–135:27, 2018
Best Paper Honorable Mention

[MOBILESoft 2018] Self-reported activities of Android developers
Luca Pascarella, Fabio Palomba, Franz-Xaver Geiger, Dario Di Nucci, Ivano Malavolta, Alberto Bacchelli
5th International Conference on Mobile Software Engineering and Systems, pp. 144–155, 2018

[ICSE 2018 - SEIP] Modern Code Review: A Case Study at Google
Caitlin Sadowski, Emma Söderberg, Luke Church, Michal Sipko, Alberto Bacchelli
40th ACM/IEEE International Conference on Software Engineering, Software Engineering in Practice Track, pp. 181–190, 2018

[ICSE 2018] Understanding Developers' Needs on Deprecation as a Language Feature
Anand Ashok Sawant, Mauricio Aniche, Arie van Deursen, Alberto Bacchelli
40th ACM/IEEE International Conference on Software Engineering, pp. 561–571, 2018

[ICSE 2018] When Testing Meets Code Review: Why and How Developers Review Tests
Davide Spadini, Mauricio Aniche, Margaret Storey, Magiel Bruntink, Alberto Bacchelli
40th ACM/IEEE International Conference on Software Engineering, pp. 677–687, 2018

[ICSME 2018] On The Relation of Test Smells to Software Code Quality
Davide Spadini, Fabio Palomba, Andy Zaidman, Magiel Bruntink, Alberto Bacchelli
34th IEEE International Conference on Software Maintenance and Evolution, pp. 1–12, 2018

[ICSME 2018] Why are features deprecated? An investigation into the motivation behind deprecation
Anand Ashok Sawant, Guangzhe Huanag, Gabriel Vilen, Stefan Stojkovski, Alberto Bacchelli

34th IEEE International Conference on Software Maintenance and Evolution, pp. 13–24, 2018

[ASE 2018] Mining File Histories: Should We Consider Branches?
Vladimir Kovalenko, Fabio Palomba, Alberto Bacchelli
33rd IEEE/ACM International Conference on Automated Software Engineering, pp. 202–213, 2018

[ASE 2018 - New Ideas] Continuous Code Quality: Are We (Really) Doing That?
Carmine Vassallo, Fabio Palomba, Alberto Bacchelli, Harald C. Gall
33rd IEEE/ACM International Conference on Automated Software Engineering, New Ideas Track, pp. 790–795, 2018

[MSR 2018 - Data] A graph-based dataset of commit history of real-world Android apps
Franz-Xaver Geiger, Ivano Malavolta, Luca Pascarella, Fabio Palomba, Dario Di Nucci, Alberto Bacchelli
15th International Conference on Mining Software Repositories, Data Track, pp. 30–33, 2018

[MSR 2018] How Is Video Game Development Different from Software Development in Open Source?
Luca Pascarella, Fabio Palomba, Massimiliano Di Penta, Alberto Bacchelli
15th International Conference on Mining Software Repositories, pp. 392–402, 2018

[ESEC/FSE 2018] What Makes A Code Change Easier To Review: An Empirical Investigation On Code Change Reviewability
Achyudh Ram, Anand Ashok Sawant, Marco Castelluccio, Alberto Bacchelli
26th ACM Joint European Software Engineering Conference and Symposium on the Foundations of Software Engineering, pp. 201–212, 2018
Nominated for ACM SIGSOFT Distinguished Paper Award

[ESEC/FSE 2018 - Tool Demo] PyDriller: Python framework for mining software repositories
Davide Spadini, Maurício Finavaro Aniche, Alberto Bacchelli
26th ACM Joint European Software Engineering Conference and Symposium on the Foundations of Software Engineering, pp. 908–911, 2018

[SANER 2018] Re-evaluating method-level bug prediction
Luca Pascarella, Fabio Palomba, Alberto Bacchelli
25th International Conference on Software Analysis, Evolution and Reengineering, RENE track, pp. 592–601, 2018

[ICSE 2017 - Introspection] Double-blind review in software engineering venues: the community's perspective
Alberto Bacchelli, Moritz Beller
39th ACM/IEEE International Conference on Software Engineering (Companion Volume), pp. 385–396, 2017

[ICSME 2017] On the Optimal Order of Reading Source Code Changes for Review
Tobias Baum, Kurt Schneider, Alberto Bacchelli
33rd IEEE International Conference on Software Maintenance and Evolution, pp. 329–340, 2017

[MSR 2017] Classifying code comments in Java open-source software systems
Luca Pascarella, Alberto Bacchelli
14th International Conference on Mining Software Repositories, pp. 227–237, 2017
ACM SIGSOFT Distinguished Paper Award

[MSR 2017] To mock or not to mock? An empirical study on mocking practices
Davide Spadini, Mauricio Aniche, Magiel Bruntink, Alberto Bacchelli
14th International Conference on Mining Software Repositories, pp. 402–412, 2017

[ESEM 2016] Social Diversity and Activity Levels of Open Source Software Projects on GitHub
Joop Aué, Michiel Haisma, Kristin Fjola Tomasdottir, Alberto Bacchelli
10th International Symposium on Empirical Software Engineering and Measurement, 41:1–41:6, 2016

[GECCO 2016] A Search-based Training Algorithm for Cost-aware Defect Prediction
Annibale Panichella, Carol V. Alexandru, Sebastiano Panichella, Alberto Bacchelli, Harald C. Gall
Genetic and Evolutionary Computation Conference, pp. 1077–1084, 2016

[ICSE 2016] Work Practices and Challenges in Pull-Based Development: The Contributor's Perspective
Georgios Gousios, Margaret-Anne Storey, Alberto Bacchelli
38th ACM/IEEE International Conference on Software Engineering, pp. 285–296, 2016
ACM SIGSOFT Distinguished Paper Award

[ICSE 2016] On the "Naturalness" of Buggy Code
Baishakhi Ray, Vincent Hellendoorn, Saheel Godhane, Zhaopeng Tu, Alberto Bacchelli, Premkumar Devanbu
38th ACM/IEEE International Conference on Software Engineering, pp. 428–439, 2016

[ICSME 2016] On the reaction to deprecation of 25,357 clients of 4+1 popular Java APIs
Anand Sawant, Romain Robbes, Alberto Bacchelli
32nd International Conference on Software Maintenance and Evolution, pp. 400–410, 2016
Nominated for Best Paper Award

[SCAM 2016] A Security Perspective on Code Review: The Case of Chromium.
Marco Biase, Magiel Bruntink, Alberto Bacchelli
16th IEEE International Working Conference on Source Code Analysis and Manipulation, pp. 21–30, 2016

[FSE 2016 - Tool Demo] Visualizing code and coverage changes for code review
Sebastiaan Oosterwaal, Arie Deursen, Roberta Coelho, Anand Ashok Sawant, Alberto Bacchelli
24th ACM SIGSOFT International Symposium on Foundations of Software Engineering, pp. 1038–1041, 2016

[CSCW 2015] Supporting Developers' Coordination in the IDE
Anja Guzzi, Alberto Bacchelli, Yann Riche, Arie van Deursen
18th ACM conference on Computer-Supported Cooperative Work and Social Computing, pp. 518–532, 2015
Best Paper Award

[MSR 2015] Will they like this? Evaluating Code Contributions With Language Models
Vincent Hellendoorn, Premkumar Devanbu, Alberto Bacchelli
12th Working Conference on Mining Software Repositories, pp. 157–167, 2015

[MSR 2015 - Data] A Dataset For API Usage
Anand Sawant, Alberto Bacchelli
12th Working Conference on Mining Software Repositories, Data Track, pp. 506–509, 2015

[SANER 2015] Untangling Fine-Grained Code Changes
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