

Dario Di Nucci – July 2019

Curriculum Vitae – Including Summary of Publications

Dario Di Nucci, Male, Italian DATE OF BIRTH: 3 rd September, 1988 PLACE OF BIRTH: Isernia, Italy Languages: Italian (native), English (High B2)	ADDRESS: Louis Hapstraat 198, 1040 Brussels, Belgium PHONE: +32 486 13 99 51 E-MAIL: dario.di.nucci@vub.be WEBSITE: http://dardin88.github.io
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Dario Di Nucci is a research fellow at the Software Languages Lab of the Vrije Universiteit Brussel with Prof. Coen De Roover. He received a PhD in Management and Information Technology from the University of Salerno in 2018 advised by Prof. Andrea De Lucia with a thesis entitled "Methods and Tools for Focusing and Prioritizing the Testing Effort". His research is on empirical software engineering, in particular software maintenance and evolution and software testing. To this aim, he applies several techniques such as machine learning, search-based algorithms, and static analysis of source code.

EDUCATION

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|--------------------------|--|
| 2014/12 – 2018/03 | DOCTOR OF PHILOSOPHY (PH.D.) IN MANAGEMENT & INFORMATION TECHNOLOGY
University of Salerno, Italy
Fully funded by University of Salerno
Dissertation titled "Methods and Tools for Focusing and Prioritizing the Testing Effort" advised by prof. Andrea De Lucia |
| 2017/06 | 13TH INTERNATIONAL SUMMER SCHOOL ON SOFTWARE ENGINEERING (ISSSE)
University of Salerno, Italy |
| 2017/03 – 2017/05 | VISITING STUDENT
Delft University of Technology, The Netherlands
Supervision: Prof. Andy Zaidman |
| 2016/05 – 2016/07 | VISITING STUDENT
Delft University of Technology, The Netherlands
Supervision: Prof. Andy Zaidman |
| 2016/06 | 12TH INTERNATIONAL SUMMER SCHOOL ON SOFTWARE ENGINEERING (ISSSE)
University of Salerno, Italy |
| 2015/09 | INTERNATIONAL SUMMER SCHOOL ON SOFTWARE ENGINEERING (SE SCHOOL@UNIBZ 2015)
Free University of Bolzano, Italy |
| 2013/03 | ERASMUS IP HUMAN-MACHINE INTERACTION
Reims, France |
| 2011/10 – 2014/09 | MASTER'S DEGREE (M.Sc.) IN COMPUTER SCIENCE
University of Salerno, Italy
110/110 cum laude
Dissertation titled "A defect prediction model based on relationships between developers and modified files" promoted by professor Andrea De Lucia |
| 2007/10 – 2011/05 | BACHELOR'S DEGREE (B.Sc.) IN COMPUTER SCIENCE
University of Molise, Italy
110/110 cum laude
Dissertation titled "Applications of mathematical models to semantic research" promoted by professor Giovanni Capobianco |

EMPLOYMENT HISTORY

2018/12 – ACTUAL	POST-DOCTORAL LECTURER Vrije Universiteit Brussel, Belgium <i>Capita Selecta of Software Engineering</i> (elective course in first year Master's in Computer Science)
01/2018 – ACTUAL	POST-DOCTORAL RESEARCHER Vrije Universiteit Brussel, Belgium <i>FWO EOS project “SECO-ASSIST: Automated Assistance for Developing Software in Ecosystems of the Future”</i> - https://secoassist.github.io/ <i>Innoviris TeampUP project “INTIMALS INTelligent Modernisation Assistance for Legacy Software”</i> - http://soft.vub.ac.be/intimals/
2014/12 – 2018/03	PH.D. STUDENT IN MANAGEMENT & INFORMATION TECHNOLOGY University of Salerno, Italy Fully funded by University of Salerno. Advisor: Prof. Andrea De Lucia
2014/04 – 2014/09	SOFTWARE DEVELOPER Gnome and GraphHopper Google Summer of Code 2014
2011/09 – 2012/01	SOFTWARE DEVELOPER CercAziende.it, Venafro, Italy Development of a search engine to index and search data on SQL databases

TEACHING

CAPITA SELECTA OF SOFTWARE ENGINEERING (elective course in first year Master's in Computer Science)

Vrije Universiteit Brussel, Belgium

Co-holder of the course (holder: Prof. Coen De Roover)

2018-2019

SOFTWARE ENGINEERING, MANAGEMENT AND EVOLUTION (mandatory course in first year Master's in Computer Science)

University of Salerno, Italy

Teaching assistant (holder: Prof. Andrea De Lucia)

2016-2017, 2015-2016

PROGRAMMING I (mandatory course in first year Bachelor's in Computer Science)

University of Salerno, Italy

Teaching assistant

2016-2017 (holder: Prof. Riccardo Di Stasi)

2015-2016 (holder: Prof. Enrico Fischetti)

SOFTWARE ENGINEERING (mandatory course in third year Bachelor's in Computer Science)

University of Salerno, Italy

Teaching assistant (holder: Prof. Andrea De Lucia)

2016-2017, 2015-2016

WEB DEVELOPMENT (mandatory course in third year Bachelor's in Computer Science)

University of Salerno, Italy

Teaching assistant

2016-2017

SOFTWARE ENGINEERING: MAINTENANCE AND TESTING (mandatory course in first year Master's in Computer Science)

University of Salerno, Italy

Teaching assistant (holder: Prof. Andrea De Lucia)

2015-2016

SUPERVISION OF PHD THESES – ON GOING, ADVISED:

[PT3] LIBRARY USAGE OPTIMIZATION VIA STATIC AND DYNAMIC ANALYSIS OF SOURCE CODE

Camilo Ernesto Velázquez Rodríguez (Promotor: Prof. Coen De Roover)

Projected: end of 2022

[PT2] MINING CHANGE HISTORIES FOR LIBRARY MIGRATION PATTERNS

Yunior Pacheco Correa (Promotor: Prof. Coen De Roover)

Projected: end of 2021

[PT1] ASSESSING TEST QUALITY AND RESILIENCE OF DISTRIBUTED APPLICATIONS

Jonas De Bleser (Promotor: Prof. Coen De Roover)

Projected: end of 2020

SUPERVISION OF MASTER'S THESES - GRADUATED, ADVISED:

2016

[MT5] CHECKAPP: A TOOL FOR MONITORING JAVA APPLICATION PERFORMANCE

Student: Elisa D'Eugenio – M.Sc. in Computer Science – Promotor: Prof. Andrea De Lucia

[MT4] PETRA: A POWER ESTIMATION TOOL FOR ANDROID APPLICATIONS

Student: Antonio Prota – M.Sc. in Computer Science – Promotor: Prof. Andrea De Lucia

2015

[MT3] DEVELOPMENT AND COMPARISON OF NOVEL TECHNIQUES FOR SEARCH BASED TEST DATA GENERATION
Student: Giovanni Grano – M.Sc. in Computer Science – Promotor: Prof. Andrea De Lucia

[MT2] DESIGN AND DEVELOPMENT OF A TOOL FOR THE AUTOMATIC GENERATION OF TEST CASES
Student: Simone Scalabrino – M.Sc. in Computer Science – Promotor: Prof. Andrea De Lucia

[MT1] A COMBINED MODEL FOR THE PREDICTION OF DEFECTS
Student: Giuseppe De Rosa – M.Sc. in Computer Science – Promotor: Prof. Andrea De Lucia

SUPERVISION OF BACHELOR THESES - GRADUATED, CO-ADVISED:

2017

[BT9] DESIGN AND DEVELOPMENT OF METHODS FOR TEST CASE MINIMIZATION
Student: Francesco De Feo – B.Sc. in Computer Science – Promotor: Prof. Andrea De Lucia

[BT8] DESIGN AND DEVELOPMENT OF METHODS FOR TEST CASE PRIORITIZATION
Student: Giuseppe Sessa – B.Sc. in Computer Science – Promotor: Prof. Andrea De Lucia

[BT7] DESIGN AND DEVELOPMENT OF A PLUGIN FOR OPTIMIZING REGRESSION TESTING
Student: Gerardo Della Monica – B.Sc. in Computer Science – Promotor: Prof. Andrea De Lucia

[BT6] DESIGN AND DEVELOPMENT OF A PLUGIN FOR THE DETECTION OF ENERGY DEFECTS OF MOBILE APPLICATIONS
Student: Sara Zaino – B.Sc. in Computer Science – Promotor: Prof. Andrea De Lucia

[BT5] DESIGN AND DEVELOPMENT OF A DEFECT PREDICTION TOOL
Student: Giuseppina Tufano – B.Sc. in Computer Science – Promotor: Prof. Andrea De Lucia

[BT4] DEVELOPMENT OF A SOFTWARE ENERGY ESTIMATION METHODOLOGY IN AN INTEGRATED DEVELOPMENT ENVIRONMENT
Student: Roberto Contaldo – B.Sc. in Computer Science – Promotor: Prof. Andrea De Lucia

[BT3] DESIGN AND DEVELOPMENT OF A DEFECT PREDICTION TOOL BY USING CROSS-PROJECT TECHNIQUES
Student: Pasquale Martiniello – B.Sc. in Computer Science – Advisor: Prof. Andrea De Lucia

2016

[BT2] TRIO: A TOOL FOR REGRESSION TESTING OPTIMIZATION
Student: Antonio Luca D'Avanzo – B.Sc. in Computer Science – Promotor: Prof. Andrea De Lucia

[BT1] DESIGN AND DEVELOPMENT OF A DEFECT PREDICTION TOOL
Student: Fabiano Pecorelli – B.Sc. in Computer Science – Promotor: Prof. Andrea De Lucia

ACADEMIC RECORD

Journal Articles: 6, Conference Papers: 11 (main track), 6 (tool demonstration track), Workshop Papers: 7
Citations: 241, h-index: 10, <https://scholar.google.it/citations?user=YJqcbnIAAAJ&hl=it>

1. JOURNAL PAPERS

[J6] 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 Journal of Systems and Software (JSS), 2019, to appear.

[J5] 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 Empirical Software Engineering (EMSE), 2019, to appear.

[J4] D. Di Nucci, A. Panichella, A. Zaidman, A. De Lucia
A Test Case Prioritization Genetic Algorithm guided by the Hypervolume Indicator
IEEE Transactions on Software Engineering (TSE), 2019, to appear.

[J3] F. Palomba, D. Di Nucci, A. Panichella, A. Zaidman, A. De Lucia
On the Impact of Code Smells on the Energy Consumption of Mobile Applications
Elsevier Information and Software Technology (INFOSFT), 2019, Volume 105, 13 pages, 43 - 55.

[J2] 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), 2018, Volume 44 Issue 1, 21 pages, 5 - 24.

[J1] D. Di Nucci, F. Palomba, R. Oliveto, A. De Lucia
Dynamic Selection of Classifiers in Bug Prediction: an Adaptive Method
IEEE Transactions on Emerging Topics in Computational Intelligence (TETCI), 2017, Volume 1 Issue 3, 11 pages, 202 - 212.

2. CONFERENCE PAPERS, MAIN TRACK (I.E., FORMALLY PUBLISHED IN INTERNATIONAL CONFERENCE PROCEEDINGS WITH PEER REVIEW)

[C11] F. Pecorelli, F. Palomba, D. Di Nucci, A. De Lucia
Comparing Heuristic and Machine Learning Approaches for Metric-Based Code Smell Detection
In Proceedings of the IEEE/ACM 27th International Conference on Program Comprehension (ICPC 2019), Montreal, Canada, 2019, 12 pages, 93 - 104.

[C10] G. Catolino, D. Di Nucci, F. Ferrucci
Cross-Project Just-in-Time Bug Prediction for Mobile Apps: An Empirical Assessment
In Proceedings of the 6th IEEE/ACM International Conference on Mobile Software Engineering and Systems (MOBILESoft 2019), Montreal, Canada, 2019, 12 pages, to appear.

[C9] J. De Bleser, D. Di Nucci, C. De Roover
Assessing Diffusion and Perception of Test Smells in Scala Projects
In Proceedings of the IEEE/ACM 16th International Conference on Mining Software Repositories (MSR 2019) – Montreal, Canada, 2019, 11 pages, to appear.

[C8] Y. Pacheco, J. De Bleser, T. Molderez, D. Di Nucci, W. De Meuter, C. De Roover
Mining Scala Framework Extensions for Recommendation Patterns
In Proceedings of the 26th IEEE International Conference on Software Analysis, Evolution, and Reengineering (SANER 2018), Hangzhou, China, 2019, 10 pages, 514 - 523.

[C7] 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 IEEE/ACM 26th International Conference on Program Comprehension (ICPC 2018), Gothenburg, Sweden, 2018, 11 pages, 255 - 265.

- [C6] L. Pascarella, F. Geiger, F. Palomba, D. Di Nucci, I. Malavolta, A. Bacchelli
Self-Reported Activities of Android Developers
In Proceedings of the 5th IEEE/ACM International Conference on Mobile Software Engineering and Systems (MOBILESoft 2018), Gothenburg, Sweden, 2018, 12 pages, 144 - 155.
- [C5] 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 25th IEEE International Conference on Software Analysis, Evolution, and Reengineering (SANER 2018), Campobasso, Italy, 2018, 10 pages, 612 - 621.
- [C4] D. Di Nucci, F. Palomba, A. Prota, A. Panichella, A. Zaidman, A. De Lucia
Software-Based Energy Profiling of Android Apps: Simple, Efficient and Reliable?
In Proceedings of the 24th IEEE International Conference on Software Analysis, Evolution, and Reengineering (SANER 2017), Klagenfurt, Austria, 2017, 12 pages, 103-114
- [C3] S. Scalabrino, G. Grano, D. Di Nucci, R. Oliveto, A. De Lucia
Search-based Testing of Procedural Programs: Iterative Single-Target or Multi-Target Approach?
In Proceedings of the Symposium on Search-Based Software Engineering (SSBSE 2016), Raleigh, NC, United States, 2016, 15 pages, 64 – 79
- [C2] 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 31st International Conference on Software Maintenance and Evolution (ICSME 2015) - Bremen, Germany, 2015, 10 pages, 241-250
- [C1] D. Di Nucci, A. Panichella, A. Zaidman, A. De Lucia
Hypervolume-based Search for Test Case Prioritization.
In Proceedings of the Symposium on Search-Based Software Engineering (SSBSE 2015) - Bergamo, Italy, 2015, 15 pages, 157-172

3. CONFERENCE PAPERS, TOOL DEMONSTRATIONS TRACK (I.E., FORMALLY PUBLISHED IN INTERNATIONAL CONFERENCE PROCEEDINGS WITH PEER REVIEW)

- [D6] J. De Bleser, D. Di Nucci, C. De Roover
SoCRATES - Scala Radar for Test Smells
In Proceeding of the 10th ACM SIGPLAN Scala Symposium (SCALA 2019) - Tool Paper, London, United Kingdom, 2019, 5 pages, to appear.
- [D5] S. Scalabrino, G. Grano, D. Di Nucci, M. Guerra, A. De Lucia, H. Gall, R. Oliveto
OCELOT: a Search-Based Test-Data Generation Tool for C
In Proceeding of the 33rd IEEE/ACM International Conference on Automated Software Engineering (ASE 2018) - Tool Demonstrations Track, Montpellier, France, 2018, 4 pages, 868 - 871.
- [D4] F. Geiger, I. Malavolta, L. Pascarella, F. Palomba, D. Di Nucci, A. Bacchelli
A Graph-based Dataset of Commit History of Real-World Android apps
In Proceedings of the IEEE/ACM 15th International Conference on Mining Software Repositories (MSR 2018), Gothenburg, Sweden, 2018, 5 pages, 30 - 33.
- [D3] D. Di Nucci, F. Palomba, A. Prota, A. Panichella, A. Zaidman, A. De Lucia
PETra: a Software-Based Tool for Estimating the Energy Profile of Android Applications
In Proceedings of the 39th International Conference on Software Engineering (ICSE 2017) - Demonstrations Track, Buenos Aires, Argentina, 2017, 4 pages, 3-6.
- [D2] 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 24th IEEE International Conference on Software Analysis, Evolution, and Reengineering (SANER 2017) - Tool Track, Klagenfurt, Austria, 2017, 5 pages, 487-491
- [D1] 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 IEEE/ACM 12th Working Conference on Mining Software Repositories (MSR 2015) - Florence, Italy, 2015, 4 pages, 482-485

4. CONFERENCE PAPERS, MISCELLANEOUS TRACKS (I.E., FORMALLY PUBLISHED IN INTERNATIONAL CONFERENCE PROCEEDINGS WITH PEER REVIEW)

[M1] D. Di Nucci

Methods and Tools for Focusing and Prioritizing the Testing Effort

In Proceeding of the 34th IEEE International Conference on Software Maintenance and Evolution (ICSME 2018) - Doctoral Symposium Track, Madrid, Spain, 2018, 5 pages, 722 - 726.

5. PUBLISHED WORKSHOP PAPERS (I.E., FORMALLY PUBLISHED IN INTERNATIONAL WORKSHOP PROCEEDINGS WITH PEER REVIEW)

[W7] F. Pecorelli, D. Di Nucci, C. De Roover, A. De Lucia

On the Role of Data Balancing for Machine Learning-based Code Smell Detection

In Proceeding of 3rd ACM SigSoft International Workshop on Machine Learning Techniques for Software Quality Evaluation (MaLTaSQuE 2019), Tallinn, Estonia, 2019, 6 pages, to appear.

[W6] D. Di Nucci, H. Son Pham, J. Fabry, C. De Roover, K. Mens, T. Molderez, S. Nijssen and V. Zaytsev

A Language-Parametric Modular Framework for Mining Idiomatic Code Patterns

In Proceedings of the 12th Seminar Series on Advanced Techniques & Tools for Software Evolution (SATTOSE 2019), Bolzano, Italy, 2019

[W5] Y. Pacheco, J. De Bleser, T. Molderez, D. Di Nucci, W. De Meuter, C. De Roover

Mining Extension Point Patterns in Scala

In Proceedings of the 17th Belgium-Netherlands Software Evolution Workshop (BENEVOL 2018), Delft, The Netherlands, 2018, 5 pages, 16 - 20.

[W4] D. Tamburri, F. Palomba, D. Di Nucci, L. Di Giacomo

Omniscient DevOps Analytics

In Software Engineering Aspects of Continuous Development and New Paradigms of Software Production and Deployment: 1st International Workshop (DEVOPS 2018), Chateau de Villebrumier, France, 2018, 48 - 59

[W3] D. Di Nucci, F. Palomba, A. De Lucia

Evaluating the Adaptive Selection of Classifiers for Cross-Project Bug Prediction

In Proceedings of the 6th International Workshop on Realizing Artificial Intelligence Synergies in Software Engineering (RAISE 2018), Gothenburg, Sweden, 2018, 7 pages, 48 - 54.

[W2] D. Di Nucci, A. De Lucia

The Role of Meta-Learners in the Adaptive Selection of Classifiers

In Proceeding of 2nd Workshop on Machine Learning Techniques for Software Quality Evaluation (MaLTaSQuE 2018), Campobasso, Italy, 2018, 6 pages, 7 - 12.

[W1] 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 9th International Workshop on Search-Based Software Testing (SBST 2016) - Austin, TX, United States, 2016, 10 pages, 5-14

6. INVITED TALKS

2019

[T4] MINING SOURCE CODE³: MINING IDIOMS, USAGES AND EDITS

FOSDEM, Brussels, Belgium, February 3rd 2019

- 2018** **[T3] DEFECT PREDICTION: USING MACHINE LEARNING FOR FOCUSING THE TESTING EFFORT**
Jheronimus Academy of Data Science, 's-Hertogenbosch, The Netherlands, March 9th 2018
- 2017** **[T2] DEFECT PREDICTION: USING MACHINE LEARNING FOR FOCUSING THE TESTING EFFORT**
Jheronimus Academy of Data Science, 's-Hertogenbosch, The Netherlands, December 5th 2017
- [T1] DIAGNOSE AND DETECT ENERGY FLAWS OF ANDROID APPS**
Vrije Universiteit Brussel, Brussels, Belgium. March 23rd 2017

7. SERVICE TO THE SCIENTIFIC COMMUNITY

ORGANIZATION OF SUMMER SCHOOLS

- 2019** **COMMITTEE MEMBER**
14th International Summer School on Software Engineering, University of Salerno, Italy
- 2017** **SCIENTIFIC SECRETARIAT**
13th International Summer School on Software Engineering, University of Salerno, Italy
- 2016** **SCIENTIFIC SECRETARIAT**
12th International Summer School on Software Engineering, University of Salerno, Italy

PROGRAM COMMITTEE MEMBER OF INTERNATIONAL CONFERENCES

- 2019** 35th IEEE International Conference on Software Maintenance and Evolution (ICSME) - Tool Demo Track
- 27th ACM Joint European Software Engineering Conference and Symposium on the Foundations of Software Engineering (ESEC/FSE) – Artefact Evaluation Track
- 6th IEEE/ACM International Conference on Mobile Software Engineering and Systems (MOBILESoft) – Student Research Competition
- 5th International Conference on Advances and Trends in Software Engineering (SOFTENG)
- 2018** 34th IEEE International Conference on Software Maintenance and Evolution (ICSME) - Tool Demo Track
- 5th IEEE/ACM International Conference on Mobile Software Engineering and Systems (MOBILESoft) – Student Research Competition
- 10th International Conference on Advances in System Testing and Validation Lifecycle (VALID)
- 2017** 9th International Conference on Advances in System Testing and Validation Lifecycle (VALID)

PROGRAM COMMITTEE MEMBER OF INTERNATIONAL WORKSHOPS

- 2019** 2nd International Workshop on Cloud-Native Applications Design and Experience (CNAX)
- 3rd ACM SigSoft International Workshop on Machine Learning Techniques for Software Quality Evaluation (MaLTesQuE)
- 2018** 1st International Workshop on Cloud-Native Applications Design and Experience (CNAX)

EDITORIAL BOARD MEMBER OF INTERNATIONAL JOURNALS AND BLOG

2019 - ACTUAL IEEE Software Blog

REVIEWER

INTERNATIONAL JOURNALS

- Advances in Software Engineering - Elsevier
- Applied Soft Computing - Elsevier
- Computational Intelligence - Wiley
- Empirical Software Engineering - Springer
- IEEE Access - IEEE
- IET Software - Institution of Engineering and Technology
- Information Processing Letters - Elsevier
- Journal of Software: Evolution and Process - Wiley
- Journal of Systems and Software - Elsevier
- Neurocomputing - Elsevier
- Science of Computer Programming - Elsevier
- Scientific Programming - Hidawi
- Software Quality Journal - Springer
- Transactions on Knowledge and Data Engineering - IEEE

INTERNATIONAL CONFERENCES

- IEEE International Conference on Software Analysis, Evolution, and Reengineering: 2017, 2018
- IEEE International Conference on Program Comprehension: 2016, 2019
- IEEE International Conference on Software Maintenance and Evolution: 2016 (ERA Track), 2018, 2019
- International Conference on Business Information Systems: 2015, 2016
- International Conference on Distributed Multimedia Systems: 2015, 2016
- International Conference on Enterprise Information Systems: 2015, 2016, 2017
- International Conference on Mining Software Repositories: 2019

8. AWARDS

2017 **NSF TRAVEL SUPPORT**
Symposium on Search-Based Software Engineering (SSBSE), Raleigh, NC, United States

2015 **ACM SIGSOFT STUDENT TRAVEL GRANT**
37th ACM/IEEE International Conference on Software Engineering (ICSE), Florence, Italy