

Dario Di Nucci

Curriculum Vitae - Including Summary of Publications

Dario Di Nucci, Male, Italian DATE OF BIRTH: September 3rd, 1988 PLACE OF BIRTH: Isernia, Italy Languages: Italian (native), English (C1)	E-MAIL: ddinucci@unisa.it WEBSITE: http://dardin88.github.io
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Dario Di Nucci is an assistant professor at the Software Engineering (SeSa) Lab of the University of Salerno. He received a European Ph.D. degree in Management & Information Technology from the University of Salerno in 2018, advised by Prof. Andrea De Lucia.

His research is on empirical software engineering, particularly software maintenance and evolution and software testing, where he applies machine learning, search-based algorithms, and mining of software repositories.

He is a member at large of the IEEE Conference Activities Committee. He serves as editor for ACM Transactions on Software Engineering and Methodology, Elsevier Journal of Systems and Software, Elsevier Science of Computer Programming, program committee member for international conferences, and referee for international journals in software engineering and artificial intelligence, for which he received several Distinguished/Outstanding Reviewer Awards. He is an IEEE Software Initiative team member.

LICENSES AND CERTIFICATIONS

2023	ABILITAZIONE SCIENTIFICA NAZIONALE - SETTORE CONCORSUALE 09/H1 SISTEMI DI ELABORAZIONE DELLE INFORMAZIONI - FASCIA I Issued by Italian Ministry of University and Research. Valid from 15/06/2023 to 15/06/2034 https://asn21.cineca.it/pubblico/miur/esito/09%252FH1/1/5
2022	BASIC KWALIFICATIE ONDERWIJS (BKO) - UNIVERSITY TEACHING QUALIFICATION (UTQ) Issued by Tilburg University
2020	ABILITAZIONE SCIENTIFICA NAZIONALE - SETTORE CONCORSUALE 01/B1 INFORMATICA - FASCIA II Issued by Italian Ministry of University and Research. Valid from 23/11/2020 to 23/11/2030 https://asn18.cineca.it/pubblico/miur/esito-abilitato/01%252FB1/2/5 ABILITAZIONE SCIENTIFICA NAZIONALE - SETTORE CONCORSUALE 09/H1 SISTEMI DI ELABORAZIONE DELLE INFORMAZIONI - FASCIA II Issued by Italian Ministry of University and Research. Valid from 13/11/2020 to 13/11/2030 https://asn18.cineca.it/pubblico/miur/esito-abilitato/09%252FH1/2/5
2014	ABILITAZIONE ALLA PROFESSIONE DI INGEGNERE Issued by University of Molise in December 2014

EMPLOYMENT HISTORY

01/2022 - CURRENT	ASSISTANT PROFESSOR (I.E., RICERCATORE A TEMPO DETERMINATO DI TIPO B) University of Salerno (UNISA), Italy - Unit Leader of the MUR PRIN project RECHARGE - Principal Investigator of the MUR PRIN project SMARTITUDE - Course Holder and Lecturer for several courses (see the Teaching section)
01/2020 - 12/2021	ASSISTANT PROFESSOR Jheronimus Academy of Data Science (JADS), Tilburg University, The Netherlands - Work Package Leader of the EU Horizon 2020 project RADON (https://radon-h2020.eu/)

- M.Sc. Thesis Coordinator
- Course Holder and Lecturer for several courses (see the Teaching section)

- 01/2018 - 12/2019** **POST-DOCTORAL RESEARCHER**
 Vrije Universiteit Brussel (VUB), Belgium
 - Researcher in the FWO EOS project SECO-ASSIST (<https://secoassist.github.io/>)
 - Researcher in the Innoviris TeampUP project INTIMALS <http://soft.vub.ac.be/intimals/>
 - Lecturer of Capita Selecta of Software Engineering (M.Sc. in Computer Science)
- 12/2014 - 03/2018** **PH.D. STUDENT IN MANAGEMENT & INFORMATION TECHNOLOGY**
 UNISA, Italy
 Fully funded by UNISA. Advisor: Prof. Andrea De Lucia

EDUCATION

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

PROMOTED COLLABORATIVE RESEARCH PROJECTS

- 11/2023 - 11/2025** **RECHARGE: MONITORING, DETECTION, AND CHARACTERIZATION OF PERFORMANCE REGRESSIONS**
 Funder: MUR - PRIN: Progetti di Ricerca di Rilevante Interesse Nazionale – Bando 2022 PNRR
 Role: Unit Leader - Additional Promoters: Vittorio Cortellessa (UNIVAQ), Rocco Oliveto (UNIMOL)

09/2023 - 09/2025

SMARTITUDE: AUTOMATED TESTING AND SECURITY ASSESSMENT OF SMART CONTRACTS

Funder: MUR - PRIN: Progetti di Ricerca di Rilevante Interesse Nazionale – Bando 2022

Role: Principal Investigator - Additional Promoters: Carlos E. Budde (UNITN), Mariano Ceccato (UNIVR)

TEACHING

CURRENTLY TAUGHT COURSES

OBJECT ORIENTED PROGRAMMING (mandatory course of the bachelor's in Computer Science)

UNISA, taught with Prof. Vincenzo Deufemia, Fall 2023 and Fall 2022

SOFTWARE DEPENDABILITY (mandatory course of the master's in Computer Science)

UNISA, Fall 2023, Spring 2023

UNISA, Spring 2022 (taught with Dr. Fabio Palomba)

SOFTWARE ENGINEERING FOR SECURE CLOUD SYSTEMS (mandatory course of the master's in IT Security and Cloud Technologies)

UNISA, taught with Prof. Carmine Gravino, Spring 2024

FUNDING AND MANAGEMENT OF RESEARCH PROJECTS (course of the Ph.D. in Computer Science)

UNISA, taught with Prof. Andrea De Lucia, Winter 2023

PAST TAUGHT COURSES

EMPIRICAL RESEARCH METHODS (course of the Ph.D. in Computer Science)

UNISA, taught with Dr. Fabio Palomba, Summer 2023

INTRODUCTION TO MACHINE LEARNING (mandatory course of the Pre-master's in Data Science and Entrepreneurship)

JADS, Spring 2021

JADS, course holder: Prof. Damian A. Tamburri, Spring 2020

DATA ENGINEERING (mandatory course of the master's in Data Science and Entrepreneurship)

JADS, course holder: Prof. Willem-Jan van den Heuvel, Fall 2021 and Fall 2020

DATA STATISTICS (mandatory course of the bachelor's in Data Science)

Tilburg University, The Netherlands, course holder: Prof. Maurits C. Kaptein, Fall 2019

CAPITA SELECTA OF SOFTWARE ENGINEERING (elective course of the master's in Computer Science)

VUB, course holder: Prof. Coen De Roover, annual course, 2019/2020 and 2018/2019

TEACHING ASSISTANT

SOFTWARE ENGINEERING, MANAGEMENT, AND EVOLUTION (mandatory course of the master's in Computer Science)

UNISA, course holder: Prof. Andrea De Lucia, Spring 2017 and Spring 2016

SOFTWARE ENGINEERING (mandatory course of the bachelor's in Computer Science)

UNISA, course holder: Prof. Andrea De Lucia, Fall 2016 and Fall 2015

WEB DEVELOPMENT (mandatory course in the bachelor's in Computer Science)

UNISA, Fall 2016

PROGRAMMING (mandatory course in the bachelor's in Computer Science)

UNISA, Fall 2016 (course holder: Dr. Riccardo Di Stasi)

UNISA, Fall 2015 (course holder: Prof. Enrico Fischetti)

SOFTWARE ENGINEERING: MAINTENANCE AND TESTING (mandatory course of the master's in Computer Science)

SUPERVISION

SUPERVISED PH.D. THESES

- 2023** **[PT2] CATCHING BUGS IN THE CLOUD: PREDICTIVE MAINTENANCE OF IAC VIA DEFECT PREDICTION AND CODE SMELL DETECTION TO CONTINUOUSLY IMPROVE QUALITY**
Stefano Dalla Palma - Promotor: Prof. Willem-Jan van den Heuvel - Tilburg School of Humanities and Digital Science
- 2020** **[PT1] AN AUTOMATED DELTA-DEBUGGING APPROACH TO RESILIENCE TESTING OF ACTOR SYSTEMS THROUGH FAULT INJECTION**
Jonas De Bleser - Promotor: Prof. Coen De Roover - VUB

PROMOTED MASTER'S THESES

- 2023** **[MT19] INFRASTRUCTURE-AS-CODE DEFECT PREDICTION USING PROGRAM DEPENDENCE GRAPH METRICS**
Gerardo Iuliano - M.Sc. in Computer Science - UNISA
- [MT18] DEFECT PREDICTION IN TERRAFORM USING PRODUCT METRICS**
Gerardo Brescia - M.Sc. in Computer Science - UNISA
- 2022** **[MT17] MACHINE LEARNING FOR CODE SEARCH: A SYSTEMATIC REVIEW AND INDUSTRIAL FEASIBILITY STUDY**
Ashley Van Can - M.Sc. in Data Science and Entrepreneurship – JADS
- [MT14] DUTCH TEXT GENERATION TO COMBAT CLASS IMBALANCE**
Ellen Mans - M.Sc. in Data Science and Entrepreneurship - JADS
- [MT10] PREDICTING REVENUE OF COMMERCIAL CLIENTS OF A DUTCH FINANCIAL INSTITUTION USING MACHINE LEARNING**
Jens van de Zande - M.Sc. in Data Science and Entrepreneurship - JADS

SUPERVISED MASTER'S THESES

- 2022** **[MT16] DETECTING ROAD SURFACE ANOMALIES USING MULTIMODAL MACHINE LEARNING**
Joël Luijmes - M.Sc. in Data Science and Entrepreneurship - Promotor: Prof. Willem-Jan van den Heuvel - JADS
- [MT15] ON THE USE OF AUTOMATIC CLASSIFICATION FOR BUG TRIAGING IN INDUSTRY**
Christos Kitsanelis - M.Sc. in Computer Science and Engineering - Promotor: Dr. Eleni Constantinou – TU/e
- 2021** **[MT13] ENRICHING A POINTS-OF-INTEREST DATASET BY APPLYING LOCATION EXTRACTION AND WEBSITE CLASSIFICATION ON SCRAPED BUSINESS WEBSITES**
Paulo Rijnberg - M.Sc. in Data Science and Entrepreneurship - Promotor: Dr. Daan Kolkman - JADS
- [MT12] TOWARD FURTHER AUTOMATION OF WEAK SUPERVISION - A TEXT CLASSIFICATION CASE STUDY**
Christos Papasimos - M.Sc. in Data Science and Entrepreneurship - Promotor: Prof. Damian A. Tamburri - JADS
- [MT11] VARIATIONAL TASK ENCODERS FOR MODEL-AGNOSTIC META-LEARNING WITH UNCERTAINTY OVER TASK DISTRIBUTIONS**
Luuk Schagen - M.Sc. in Data Science and Entrepreneurship - Promotor: Dr. Joaquin Vanschoren - JADS
- [MT9] PREDICTING SECURITY-RELEVANT COMMITS WITH STATIC CODE ANALYZERS**
Therese Fehrer - M.Sc. in Data Science and Entrepreneurship - Promotor: Prof. Damian A. Tamburri - JADS

- 2020** **[MT8] SOURCE CODE MEASUREMENTS FOR MACHINE LEARNING-BASED SMELL DETECTION IN INFRASTRUCTURE AS CODE: A TOSCA CASE-STUDY**
Chiel van Asseldonk - M.Sc. in Data Science and Entrepreneurship - Promotor: Prof. Damian A. Tamburri - JADS
- [MT7] MEASURING COMPETITIVENESS BASED ON INSTAGRAM FOLLOWER COMMUNICATION**
Niels van Gorsel - M.Sc. in Data Science and Entrepreneurship - Promotor: Dr. Shantanu Mullick - JADS
- [MT6] HEURISTIC-GUIDED RESILIENCE TESTING OF PERSISTENT ACTOR IMPLEMENTATIONS**
Patrick Muriuki Gakuo - M.Sc. in Computer Science - Promotor: Prof. Coen De Roover - VUB
- 2016** **[MT5] CHECKAPP: A TOOL FOR MONITORING JAVA APPLICATION PERFORMANCE**
Elisa D'Eugenio - M.Sc. in Computer Science - Promotor: Prof. Andrea De Lucia - UNISA
- [MT4] PETRA: A POWER ESTIMATION TOOL FOR ANDROID APPLICATIONS**
Antonio Prota - M.Sc. in Computer Science - Promotor: Prof. Andrea De Lucia - UNISA
- 2015** **[MT3] DEVELOPMENT AND COMPARISON OF NOVEL TECHNIQUES FOR SEARCH-BASED TEST DATA GENERATION**
Giovanni Grano - M.Sc. in Computer Science - Promotor: Prof. Andrea De Lucia - UNISA
- [MT2] DESIGN AND DEVELOPMENT OF A TOOL FOR THE AUTOMATIC GENERATION OF TEST CASES**
Simone Scalabrino - M.Sc. in Computer Science - Promotor: Prof. Andrea De Lucia - UNISA
- [MT1] A COMBINED MODEL FOR THE PREDICTION OF DEFECTS**
Giuseppe De Rosa - M.Sc. in Computer Science - Promotor: Prof. Andrea De Lucia - UNISA

PROMOTED BACHELOR'S THESES

- 2022** **[BT12] BLOCKCHAIN ANALYSIS AND DEVELOPMENT OF AN APPLICATION IN SOLIDITY**
Luigi Allocca - B.Sc. in Computer Science – UNISA
- [BT11] ANALYSIS OF AUTONOMOUS DRIVING SYSTEMS IN A SIMULATED ENVIRONMENT**
Mihai Alexandru Burlacu - B.Sc. in Computer Science - UNISA

SUPERVISED BACHELOR'S THESES

- 2022** **[BT13] ENERGY CONSUMPTION OF DATA STRUCTURES IN JAVA: AN EMPIRICAL STUDY**
Nicolò Delogu - B.Sc. in Computer Science - Promotor: Dr. Fabio Palomba - UNISA
- [BT10] IDENTIFICATION OF LINGUISTIC SMELLS IN INFRASTRUCTURE AS CODE**
Danilo Aliberti - B.Sc. in Computer Science - Promotor: Dr. Fabio Palomba - UNISA
- 2017** **[BT9] DESIGN AND DEVELOPMENT OF METHODS FOR TEST CASE MINIMIZATION**
Francesco De Feo - B.Sc. in Computer Science - Promotor: Prof. Andrea De Lucia - UNISA
- [BT8] DESIGN AND DEVELOPMENT OF METHODS FOR TEST CASE PRIORITIZATION**
Giuseppe Sessa - B.Sc. in Computer Science - Promotor: Prof. Andrea De Lucia - UNISA
- [BT7] DESIGN AND DEVELOPMENT OF A PLUGIN FOR OPTIMIZING REGRESSION TESTING**
Gerardo Della Monica - B.Sc. in Computer Science - Promotor: Prof. Andrea De Lucia - UNISA
- [BT6] DESIGN AND DEVELOPMENT OF A PLUGIN FOR DETECTING ENERGY DEFECTS OF MOBILE APPLICATIONS**
Sara Zaino - B.Sc. in Computer Science - Promotor: Prof. Andrea De Lucia - UNISA
- [BT5] DESIGN AND DEVELOPMENT OF A DEFECT PREDICTION TOOL**
Giuseppina Tufano - B.Sc. in Computer Science - Promotor: Prof. Andrea De Lucia - UNISA

[BT4] DEVELOPMENT OF A SOFTWARE ENERGY ESTIMATION METHODOLOGY IN AN INTEGRATED DEVELOPMENT ENVIRONMENT

Roberto Contaldo - B.Sc. in Computer Science - Promotor: Prof. Andrea De Lucia - UNISA

[BT3] DESIGN AND DEVELOPMENT OF A DEFECT PREDICTION TOOL BY USING CROSS-PROJECT TECHNIQUES

Pasquale Martiniello - B.Sc. in Computer Science - Advisor: Prof. Andrea De Lucia - UNISA

2016 [BT2] TRIO: A TOOL FOR REGRESSION TESTING OPTIMIZATION

Antonio Luca D'Avanzo - B.Sc. in Computer Science - Promotor: Prof. Andrea De Lucia - UNISA

[BT1] DESIGN AND DEVELOPMENT OF A DEFECT PREDICTION TOOL

Fabiano Pecorelli - B.Sc. in Computer Science - Promotor: Prof. Andrea De Lucia - UNISA

PROFESSIONAL SERVICES TO THE SCIENTIFIC COMMUNITY

EDITORIAL BOARD MEMBER OF INTERNATIONAL SCIENTIFIC JOURNALS

01/2024 – CURRENT ACM Transactions on Software Engineering and Methodology - Editor

10/2023 – CURRENT Elsevier Journal of Systems and Software (JSS) - Area Editor

03/2021 – 10/2023 Elsevier Journal of Systems and Software (JSS) - Editor

05/2021 – CURRENT Elsevier Science of Computer Programming (SCICO) - Editor

05/2020 – CURRENT IEEE Software Initiatives Team

09/2020 Guest Editor for Elsevier Science of Computer Programming (SCICO) for the Special Issue on "Software Health of Software Ecosystems"

REVIEWER FOR INTERNATIONAL SCIENTIFIC JOURNALS

Transactions on Software Engineering - IEEE

Transactions on Software Engineering and Methodology - ACM

IEEE Software - IEEE

Journal of Systems and Software - Elsevier

Empirical Software Engineering - Springer

Journal of Software: Evolution and Process - Wiley

Information and Software Technology - Elsevier

Science of Computer Programming - Elsevier

IEEE Access - IEEE

IET Software - Institution of Engineering and Technology

Software Quality Journal – Springer

ORGANIZATION OF SCIENTIFIC EVENTS

2024 FINANCE CHAIR

28th International Conference on Evaluation and Assessment in Software Engineering (EASE 2024)

Salerno, Italy

2023 PROGRAM CHAIR

49th Euromicro Conference on Software Engineering and Advanced Applications (Euromicro SEAA 2023)

Durres, Albania

CHAIR

16th International Summer School on Software Engineering (ISSSE)

Salerno, Italy

PROGRAM CHAIR

15th Seminar on Advanced Techniques & Tools for Software Evolution (SATToSE 2023)
Salerno, Italy

2021

ORGANIZER

20th Belgium-Netherlands Software Evolution Workshop (BENEVOL)
Virtual (originally 's-Hertogenbosch, The Netherlands)

TOOL DEMO CHAIR

29th IEEE/ACM International Conference on Program Comprehension (ICPC)
Virtual (originally Madrid, Spain)

2020

ORGANIZER

3rd International Workshop on Software Health (SoHeal)
Virtual (originally Seoul, South Korea)

PUBLICITY CHAIR

28th IEEE/ACM International Conference on Program Comprehension (ICPC)
Virtual (originally Seoul, South Korea)

2019

ORGANIZER

18th Belgium-Netherlands Software Evolution Workshop (BENEVOL)
Brussels, Belgium

2017

SCIENTIFIC SECRETARIAT

13th International Summer School on Software Engineering (ISSSE)
Salerno, Italy

2016

SCIENTIFIC SECRETARIAT

12th International Summer School on Software Engineering (ISSSE)
Salerno, Italy

PROGRAM COMMITTEE MEMBER OF INTERNATIONAL CONFERENCES

2024

40th IEEE International Conference on Software Maintenance and Evolution (ICSME)
Research Track

46th IEEE/ACM International Conference on Software Engineering (ICSE)
Student Research Competition

21st IEEE/ACM International Conference on Mining Software Repositories (MSR)
Technical Papers Track

32nd IEEE/ACM International Conference on Program Comprehension (ICPC)
Research Track

31st IEEE International Conference on Software Analysis, Evolution, and Reengineering (SANER)
Research Track

32nd ACM Foundations of Software Engineering (FSE)
Research Track

2023

23rd IEEE International Working Conference on Source Code Analysis and Manipulation (SCAM)
Research Track, Artifact Evaluation Track

	23 rd International Conference on Product-Focused Software Process Improvement 2023 (PROFES) Research Track
	39 th IEEE International Conference on Software Maintenance and Evolution (ICSME) Research Track, New Ideas and Emerging Results Track, Tool Demo Track, Artifact Evaluation Track
	10 th European Conference on Service-Oriented and Cloud Computing (ESOCC) Research Track
	45 th IEEE/ACM International Conference on Software Engineering (ICSE) Software Engineering in Practice Track, Artifact Evaluation Track, Poster Track
	31 st IEEE/ACM International Conference on Program Comprehension (ICPC) Research Track
	20 th IEEE/ACM International Conference on Mining Software Repositories (MSR) Technical Papers Track
	30 th IEEE International Conference on Software Analysis, Evolution, and Reengineering (SANER) Research Track
2022	22 nd IEEE International Working Conference on Source Code Analysis and Manipulation (SCAM) Research Track, Artifact Evaluation Track
	38 th IEEE International Conference on Software Maintenance and Evolution (ICSME) Tool Demo Track, Artifact Evaluation Track
	44 th IEEE/ACM International Conference on Software Engineering (ICSE) Student Research Competition Track
	30 th IEEE/ACM International Conference on Program Comprehension (ICPC) Research Track
	9 th IEEE/ACM International Conference on Mobile Software Engineering and Systems (MOBILESoft) Technical Papers Track
	19 th IEEE/ACM International Conference on Mining Software Repositories (MSR) Technical Papers Track, Registered Report Track
	9 th European Conference on Service-Oriented and Cloud Computing (ESOCC) Project Track
	29 th IEEE International Conference on Software Analysis, Evolution, and Reengineering (SANER) Research Track
2021	21 st IEEE International Working Conference on Source Code Analysis and Manipulation (SCAM) Research Track, Artifact Evaluation Track
	37 th IEEE International Conference on Software Maintenance and Evolution (ICSME) Tool Demo Track, Artifact Evaluation Track
	8 th IEEE/ACM International Conference on Mobile Software Engineering and Systems (MOBILESoft) Technical Papers Track
	28 th IEEE International Conference on Software Analysis, Evolution, and Reengineering (SANER) Research Track, Reproducibility Studies and Negative Results Track, Tool Demo Track
2020	20 th IEEE International Working Conference on Source Code Analysis and Manipulation (SCAM)

New Ideas and Emerging Results Track

28th ACM Joint European Software Engineering Conference and Symposium on the Foundations of Software Engineering (ESEC/FSE)
Tool Demo Track

35th IEEE/ACM International Conference on Automated Software Engineering (ASE)
Late Breaking Results Track

46th Euromicro Conference on Software Engineering and Advanced Applications (SEAA)
Journal First Track

28th International Conference on Program Comprehension (ICPC)
Research Track

27th IEEE International Conference on Software Analysis, Evolution, and Reengineering (SANER)
Research Track, Journal First Track, Tool Demo Track

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)
Artifact Evaluation Track

6th IEEE/ACM International Conference on Mobile Software Engineering and Systems (MOBILESoft)
Student Research Competition

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

PROGRAM COMMITTEE MEMBER OF INTERNATIONAL WORKSHOPS

2023 2nd International Workshop on Engineering Intelligent Applications' Code (ENIAC)

2nd International Workshop on the Foundations of Infrastructure Specification and Testing (FIST)

2022 6th International Workshop on Machine Learning Techniques for Software Quality Evaluation (MaLTeSQuE)

1st International Workshop on Quantum Programming for Software Engineering (QP4SE)

1st International Workshop on the Foundations of Infrastructure Specification and Testing (FIST)

2021 5th International Workshop on Machine Learning Techniques for Software Quality Evaluation (MaLTeSQuE)

4th International Workshop on Software Health (SoHeal)

2020 19th Belgium-Netherlands Software Evolution Workshop (BENEVOL)

4th International Workshop on Machine Learning Techniques for Software Quality Evaluation (MaLTeSQuE)

2019 2nd International Workshop on Cloud-Native Applications Design and Experience (CNAX)

3rd International Workshop on Machine Learning Techniques for Software Quality Evaluation (MaLTeSQuE)

- 2018** 1st International Workshop on Cloud-Native Applications Design and Experience (CNAX)
2nd Workshop on Machine Learning Techniques for Software Quality Evaluation (MaLTeSQuE)

REVIEWER FOR INTERNATIONAL CONFERENCES

- 2022** 38th IEEE International Conference on Software Maintenance and Evolution (ICSME)
Research Track

15th Innovations in Software Engineering Conference (ISEC)
- 2021** 29th International Conference on Program Comprehension (ICPC)
Research Track
- 2020** 36th IEEE International Conference on Software Maintenance and Evolution (ICSME)
Research Track

24th International Conference on Evaluation and Assessment in Software Engineering (EASE)
Research Track
- 2019** 35th IEEE International Conference on Software Maintenance and Evolution (ICSME)
Research Track

27th International Conference on Program Comprehension (ICPC)
Research Track

16th IEEE/ACM International Conference on Mining Software Repositories (MSR)
Technical Papers Track
- 2018** 34th IEEE International Conference on Software Maintenance and Evolution (ICSME)
Research Track

25th IEEE International Conference on Software Analysis, Evolution, and Reengineering (SANER)
Research Track
- 2019** 24th IEEE International Conference on Software Analysis, Evolution, and Reengineering (SANER)
Research Track
- 2017** 19th International Conference on Enterprise Information Systems (ICEIS)
- 2016** 32nd IEEE International Conference on Software Maintenance and Evolution (ICSME)
New Ideas and Emerging Results Track

24th International Conference on Program Comprehension (ICPC)
Research Track

19th International Conference on Business Information Systems (BIS)

22nd International Conference on Distributed Multimedia Systems (DMS)

18th International Conference on Enterprise Information Systems (ICEIS)
- 2015** 18th International Conference on Business Information Systems (BIS)

21st International Conference on Distributed Multimedia Systems (DMS)

17th International Conference on Enterprise Information Systems (ICEIS)

INVITED TALKS

- 2023** **[T13] THE QUANTUM FRONTIER OF SOFTWARE ENGINEERING AND ITS ADOPTION**
SWForum.eu: Workshop on Future Challenges in SE, Politecnico di Milano, Milan, June 27th, 2023
- [T12] THE DO'S AND DON'TS OF INFRASTRUCTURE CODE: A SYSTEMATIC GREY LITERATURE REVIEW**
Dagstuhl Seminar 23082, Dagstuhl, February 21st, 2023
- 2022** **[T11] MACHINE LEARNING FOR SOFTWARE ENGINEERING: THE NEW GOLD RUSH**
Smart Services and Data-driven Societies Summit, University of Molise, Termoli, Italy, July 25th, 2022
- 2021** **[T10] CODE SMELL DETECTION: THE ECSTASY OF MACHINE LEARNING**
Utrecht University, Utrecht, October 6th, 2021
- [T9] MACHINE LEARNING FOR SOFTWARE ENGINEERING: THE GOOD, THE BAD, AND THE UGLY**
University of Milano Bicocca, Virtual, July 7th, 2021
- [T8] IMPROVING ENERGY EFFICIENCY OF MOBILE APPLICATIONS IN THE INTERNET OF THINGS**
Summer School on IoT, UNISA, Virtual, April 9th, 2021
- 2020** **[T7] MACHINE LEARNING FOR SOFTWARE ENGINEERING: THE GOOD, THE BAD, AND THE UGLY**
Eindhoven University of Technology, Virtual, December 10th, 2020
- [T6] IMPROVING ENERGY EFFICIENCY OF MOBILE APPLICATIONS IN THE INTERNET OF THINGS**
Summer School on IoT, UNISA, Virtual, June 3rd, 2020
- [T5] DEFECT PREDICTION: USING MACHINE LEARNING FOR FOCUSING THE TESTING EFFORT**
UNISA, Virtual, March 25th, 2020
- 2019** **[T4] MINING SOURCE CODE^3: MINING IDIOMS, USAGES, AND EDITS**
FOSDEM, Brussels, Belgium, February 3rd, 2019
- 2018** **[T3] DEFECT PREDICTION: USING MACHINE LEARNING FOR FOCUSING THE TESTING EFFORT**
JADS, 's-Hertogenbosch, The Netherlands, March 9th, 2018
- 2017** **[T2] DEFECT PREDICTION: USING MACHINE LEARNING FOR FOCUSING THE TESTING EFFORT**
JADS, 's-Hertogenbosch, The Netherlands, December 5th, 2017
- [T1] DIAGNOSE AND DETECT ENERGY FLAWS OF ANDROID APPS**
VUB, Brussels, Belgium. March 23rd, 2017

MEMBERSHIPS

- 04/2021 - CURRENT** **MEMBER-AT-LARGE OF THE IEEE CONFERENCE ACTIVITIES COMMITTEE (CAC)**
- 11/2020 – 12/2021** **CO-LEADER OF THE OASIS TOSCA EMERGING COMPUTE PLATFORMS AD-HOC (TOSCA-ECAH)**
- 01/2020 - 12/2021T** **MEMBER OF THE OASIS TOSCA TECHNICAL COMMITTEE**

AWARDS

- 2023** **BEST REVIEWER AWARD 2022**
Journal of Systems and Software (JSS), Elsevier
- 2022** **TOP REVIEWER AWARD 2021**
Information and Software Technology (IST), Elsevier

BEST REVIEWER AWARD 2021

Journal of Systems and Software (JSS), Elsevier

2021**DISTINGUISHED REVIEWER AWARD 2020**

Transactions on Software Engineering and Methodologies (TOSEM), ACM

BEST REVIEWER AWARD 2020

Journal of Systems and Software (JSS), Elsevier

2020**BEST REVIEWER AWARD 2019**

Journal of Systems and Software (JSS), Elsevier

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

COMMITTEE MEMBER OF PH.D. JURIES**2020****INVESTIGATING PERFORMANCE ISSUES IN MOBILE APPS**

Teerath Das, Gran Sasso Science Institute, Italy
advised by Prof. Massimiliano Di Penta and Dr. Ivano Malavolta

COMMITTEE MEMBER OF PDENG JURIES**2021****PREDICTING SALES QUANTITY FOR NEWLY PUBLISHED BOOKS IN BRUNA STORES**

Kristof Menyhert, JADS, The Netherlands

CUSTOMER ANALYSIS AND A DESIGN OF A CROSS-DOMAIN PERSONALIZED RECOMMENDER SYSTEM FOR AUDAX GROEP

Bethany Orense, JADS, The Netherlands

ACADEMIC RECORD

Journal Articles: 23

Conference Papers: 14 (main track), 8 (tool demonstration track), 6 (miscellaneous tracks)

Workshop Papers: 11

Citations: 2,134 on Google Scholar, h-index: 25, <https://scholar.google.it/citations?user=YJqcbnIAAAAJ>
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JOURNAL PAPERS**[J23] AUTOMATED MAPPING OF VULNERABILITY ADVISORIES ONTO THEIR FIX COMMITS IN OPEN SOURCE REPOSITORIES**

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[J22] MACHINE LEARNING-BASED TEST SMELL DETECTION

V. Pontillo, D. Amoroso d'Aragona, F. Pecorelli, D. Di Nucci, F. Ferrucci, F. Palomba
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[J20] BAYESIAN META-ANALYSIS OF SOFTWARE DEFECT PREDICTION WITH MACHINE LEARNING

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[J18] "THROUGH THE LOOKING-GLASS..." AN EMPIRICAL STUDY ON BLOB INFRASTRUCTURE BLUEPRINTS IN TOSCA

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