Dario Di Nucci

Curriculum Vitae - Including Summary of Publications

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Dario Di Nucci, Male, Italian Address: Via Raffaele Iorio, 27 - 86170 Isernia - IT

DATE OF BIRTH: September 3rd, 1988
PLACE OF BIRTH: Isernia, Italy

PLACE OF BIRTH: Isernia, Italy

Website: http://dardin88.github.io
Languages: Italian (native), English (C1)

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 Elsevier Journal of Systems and Software and 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 and the social media manager of Elsevier Science of Computer Programming. He is a member of the OASIS TOSCA technical committee and co-leads the OASIS TOSCA "Emerging Compute Platforms ad-hoc".

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 ÎNGEGNERE

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

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: Rational decomposition and

orchestration for serverless computing" (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: Automated Assistance for Developing Software

in Ecosystems of the Future" (https://secoassist.github.io/)

Researcher in the Innoviris TeampUP project "INTiMALS INTelligent Modernisation Assistance for

Legacy Software" (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

University of Salerno, Italy

Fully funded by University of Salerno. Advisor: Prof. Andrea De Lucia

EDUCATION

12/2014 - 03/2018 DOCTOR OF PHILOSOPHY (Ph.D.) IN MANAGEMENT & INFORMATION TECHNOLOGY

University of Salerno, Italy

Fully funded by University of Salerno

Dissertation: "Methods and Tools for Focusing and Prioritizing the Testing Effort"

Advisor: Prof. Andrea De Lucia

06/2017 13[™] International Summer School on Software Engineering (ISSSE)

University of Salerno, 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)

University of Salerno, 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

University of Salerno, 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

09/2023 - 09/2025 SMARTITUDE: AUTOMATED TESTING AND SECURITY ASSESSMENT OF SMART CONTRACTS

PRIN: Progetti di Ricerca di Rilevante Interesse Nazionale – Bando 2022 Additional Promotors: Carlos E. Budde (UNITN), Mariano Ceccato (UNIVR)

TEACHING

SOFTWARE ENGINEERING FOR SECURE CLOUD SYSTEMS (mandatory course of the master's in computer science)

University of Salerno, Italy

Lecturer (course holder: Prof. Carmine Gravino) - Spring 2024

FUNDING AND MANAGEMENT OF RESEARCH PROJECTS (course of the Ph.D. in computer science)

University of Salerno, Italy

Lecturer (course holder: Prof. Andrea De Lucia) - Winter 2023

SOFTWARE DEPENDABILITY (mandatory course of the master's in computer science)

University of Salerno, Italy

Course holder - Spring 2023 and Fall 2023

Lecturer (course holder: Dr. Fabio Palomba) - Spring 2022

OBJECT ORIENTED PROGRAMMING (mandatory course of the bachelor's in computer science)

University of Salerno, Italy

Lecturer (course holder: Prof. Vincenzo Deufemia) - Fall 2022 and Fall 2023

EMPIRICAL RESEARCH METHODS (course of the Ph.D. in computer science)

University of Salerno, Italy

Course holder (taught with Dr. Fabio Palomba) - Summer 2023

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

University of Salerno, Italy

Lecturer (course holder: Prof. Andrea De Lucia) - Spring 2022

DATA ENGINEERING (mandatory course of the master's in data science and Entrepreneurship)

Jheronimus Academy of Data Science, (Tilburg University, Eindhoven University of Technology), The Netherlands

Lecturer (course holder: Prof. Damian A. Tamburri) - Fall 2020 and Fall 2021

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

Jheronimus Academy of Data Science, (Tilburg University, Eindhoven University of Technology), The Netherlands

Course holder - Spring 2021

Lecturer (course holder: Prof. Damian A. Tamburri) - Spring 2020

DATA STATISTICS (mandatory course of the bachelor's in data science)

Tilburg University, Eindhoven University of Technology, The Netherlands

Lecturer (course holder: Prof. Maurits C. Kaptein) - Fall 2019

CAPITA SELECTA OF SOFTWARE ENGINEERING (elective course of the master's in computer science)

Vrije Universiteit Brussel, Belgium

Lecturer (course holder: Prof. Coen De Roover) - annual course - 2018/2019 and 2019/2020

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

University of Salerno, Italy

Teaching assistant (course holder: Prof. Andrea De Lucia) - Spring 2016 and Spring 2017

SOFTWARE ENGINEERING (mandatory course of the bachelor's in computer science)

University of Salerno, Italy

Teaching assistant (course holder: Prof. Andrea De Lucia) - Fall 2015 and Fall 2016

WEB DEVELOPMENT (mandatory course in the bachelor's in computer science)

University of Salerno, Italy Teaching assistant - Fall 2016

PROGRAMMING I (mandatory course in the bachelor's in computer science)

University of Salerno, Italy

Teaching assistant - Fall 2015 (course holder: Prof. Enrico Fischetti) and Fall 2016 (course holder: Dr. Riccardo Di Stasi)

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

University of Salerno, Italy

Teaching assistant (course holder: Prof. Andrea De Lucia) - Fall 2015

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

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

IMT151 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 MMONITORING 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 STRUCUTRES 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

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

03/2021 - CURRENT Elsevier Journal of Systems and Software (JSS)

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

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

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

27th 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 32nd ACM Joint European Software Engineering Conference and Symposium on the Foundations of Software Engineering (ESEC/FSE)

Research Track

2023 23rd IEEE International Working Conference on Source Code Analysis and Manipulation (SCAM) Research Track, Artifact Evaluation Track

23rd International Conference on Product-Focused Software Process Improvement 2023 (PROFES) Research Track

39th 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

45th IEEE/ACM International Conference on Software Engineering (ICSE) Software Engineering in Practice Track, Artifact Evaluation Track, Poster Track

31st IEEE/ACM International Conference on Program Comprehension (ICPC) Research Track

20th IEEE/ACM International Conference on Mining Software Repositories (MSR) Technical Papers Track

30th IEEE International Conference on Software Analysis, Evolution, and Reengineering (SANER) Research Track

2022 22nd IEEE International Working Conference on Source Code Analysis and Manipulation (SCAM) Research Track, Artifact Evaluation Track

38th IEEE International Conference on Software Maintenance and Evolution (ICSME) Tool Demo Track, Artifact Evaluation Track

44th IEEE/ACM International Conference on Software Engineering (ICSE) Student Research Competition Track

30th 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

19th 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

29th IEEE International Conference on Software Analysis, Evolution, and Reengineering (SANER) Research Track

2021 21st IEEE International Working Conference on Source Code Analysis and Manipulation (SCAM) Research Track, Artifact Evaluation Track

37th 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

28th IEEE International Conference on Software Analysis, Evolution, and Reengineering (SANER) Research Track, Reproducibility Studies and Negative Results Track, Tool Demo Track

2020 20th 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 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)

 $2^{\text{nd}} \ \text{Workshop on Machine Learning Techniques for Software Quality Evaluation (MaLTeSQuE)}$

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

	Research Track
2019	35 th IEEE International Conference on Software Maintenance and Evolution (ICSME) Research Track
	27 th International Conference on Program Comprehension (ICPC) Research Track
	16 th IEEE/ACM International Conference on Mining Software Repositories (MSR) Technical Papers Track
2018	34 th IEEE International Conference on Software Maintenance and Evolution (ICSME) Research Track
	25 th IEEE International Conference on Software Analysis, Evolution, and Reengineering (SANER) Research Track
2019	24 th IEEE International Conference on Software Analysis, Evolution, and Reengineering (SANER) Research Track
2017	19 th International Conference on Enterprise Information Systems (ICEIS)
2016	32 nd IEEE International Conference on Software Maintenance and Evolution (ICSME) New Ideas and Emerging Results Track
	24 th International Conference on Program Comprehension (ICPC) Research Track
	19 th International Conference on Business Information Systems (BIS)
	22 nd International Conference on Distributed Multimedia Systems (DMS)
	18 th International Conference on Enterprise Information Systems (ICEIS)
2015	18 th International Conference on Business Information Systems (BIS)
	21st International Conference on Distributed Multimedia Systems (DMS)
	17 th 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 27 th , 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 25 th , 2022

24th International Conference on Evaluation and Assessment in Software Engineering (EASE)

[T9] MACHINE LEARNING FOR SOFTWARE ENGINEERING: THE GOOD, THE BAD, AND THE UGLY

[T10] CODE SMELL DETECTION: THE ECSTASY OF MACHINE LEARNING

Utrecht University, Utrecht, October 6th, 2021

University of Milano Bicocca, Virtual, July 7th, 2021

2021

[T8] IMPROVING ENERGY EFFICIENCY OF MOBILE APPLICATIONS IN THE INTERNET OF THINGS

Summer School on IoT, University of Salerno, 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, University of Salerno, Virtual, June 3rd, 2020

[T5] DEFECT PREDICTION: USING MACHINE LEARNING FOR FOCUSING THE TESTING EFFORT

University of Salerno, Virtual, March 25th, 2020

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

MEMBERSHIPS

04/2021 - CURRENT MEMBER-AT-LARGE OF THE IEEE CONFERENCE ACTIVITIES COMMITTEE (CAC)

11/2020 - CURRENT CO-LEADER OF THE OASIS TOSCA EMERGING COMPUTE PLATFORMS AD-HOC (TOSCA-ECAH)

01/2020 - CURRENT 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, Jheronimus Academy of Data Science, The Netherlands

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

Bethany Orense, Jheronimus Academy of Data Science, The Netherlands

ACADEMIC RECORD

Journal Articles: 19

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

Workshop Papers: 10

Citations: 1804 on Google Scholar, h-index: 24, https://scholar.google.it/citations?user=YJqcbnIAAAAJ

1166 on Scopus, h-index: 19, https://www.scopus.com/authid/detail.uri?authorld=57016777600

JOURNAL PAPERS

[J19] A TEXT CLASSIFICATION APPROACH TO API TYPE RESOLUTION FOR INCOMPLETE CODE SNIPPETS

C. Velázquez-Rodríguez, D. Di Nucci, C. De Roover

Elsevier Science of Computer Programming (SCICO), 2023, Volume 27, 26 pages

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

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[J5] THIRD-PARTY LIBRARIES IN MOBILE APPS WHEN, HOW, AND WHY DEVELOPERS UPDATE THEM

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[C10] CROSS-PROJECT JUST-IN-TIME BUG PREDICTION FOR MOBILE APPS: AN EMPIRICAL ASSESSMENT

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L. Pascarella, F. Geiger, F. Palomba, D. Di Nucci, I. Malavolta, A. Bacchelli

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G. Cascavilla, J. Slabber, F. Palomba, D. Di Nucci, D. A. Tamburri, W.J. van den Heuvel

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[W10] TOWARDS QUANTUM-ALGORITHMS-AS-A-SERVICE

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D. Tamburri, F. Palomba, D. Di Nucci, L. Di Giacomo

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