





Università degli Studi di Napoli Federico II

DOTTORATO DI RICERCA / PHD PROGRAM IN INFORMATION TECHNOLOGY AND ELECTRICAL ENGINEERING

Activities and Publications Report

PhD Student: Luigi Libero Lucio Starace

Student ID: DR993893

PhD Cycle: XXXV

PhD Cycle Chairman: Prof. Stefano Russo

PhD program student's start date: 01/11/2019 PhD program student's end date: 30/11/2022

Supervisor: Prof. Dr. Sergio Di Martino

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PhD scholarship funding entity:

Funded by NetCom Group SpA.

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PhD candidate: Luigi Libero Lucio Starace

General information

Luigi Libero Lucio Starace received in year 2018 the Master of Science degree in Computer Science from the University of Napoli Federico II. He attended a curriculum in Computer Science within the PhD program in Information Technology and Electrical Engineering. He received a grant from NetCom Group SpA.

Study activities

Attended Courses

Year	Course Title	Туре	Credits	Lecturer	Organization
1 st	Accelerated computing with CUDA C/C++	Ad hoc course	0.4	Dr. Luigi Troiano	DIETI, Università degli Studi di Napoli Federico II
1 st	Intelligenza artificiale ed etica: la ricerca in IA alla prova delle sfide etiche	Ad hoc course	1.6	Prof. P.A. Bonatti et al.	DIETI, Università degli Studi di Napoli Federico II
1 st	Safety Critical Systems for Railway Traffic Management	Ad hoc course	3.3	Dr. Mario Barbareschi	DIETI, Università degli Studi di Napoli Federico II
1 st	Matlab Fundamentals	Ad hoc course	2	Prof. Agostino De Marco et al.	Università degli Studi di Napoli Federico II
1 st	Virtualization technologies and their applications	Ad hoc course	4	Dr. Luigi De Simone	DIETI, Università degli Studi di Napoli Federico II
1 st	Innovation management, entrepreneurship, and intellectual property	Ad hoc course	5	Prof. P. Rippa	StartCup Campania 2020
1 st	Design and Implementation of Augmented Reality Software Systems	Ad hoc course	4	Dr. D. Amalfitano at al.	DIETI, Università degli Studi di Napoli Federico II
1 st	Metodi Formali	M. Sc. course	3	Prof. Valeria Vittorini	DIETI, Università degli Studi di Napoli Federico II
1 st	Machine Learning	Ad hoc course	4	Prof. A. Corazza et al.	DIETI, Università degli Studi di Napoli Federico II
1 st	Strategic Orientation for STEM Research & Writing	Ad hoc course	3.6	Dr. Chie Shin Fraser	DIETI, Università degli Studi di Napoli Federico II
2 nd	Data Science for Patient Records Analysis	Ad hoc course	2.5	Prof. Marcello Cinque et al.	DIETI, Università degli Studi di Napoli Federico II
2 nd	Statistical data analysis for science and engineering research	Ad hoc course	4	Prof. Roberto Pietrantuono	DIETI, Università degli Studi di Napoli Federico II

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2 nd	Scientific programming and visualization with Python	Ad hoc course	2	Prof. A. Botta	DIETI, Università degli Studi di Napoli Federico II
2 nd	Computer Forensics' methods, practices, and tools	Ad hoc course	3	Dr. Giovanni Cozzolino	DIETI, Università degli Studi di Napoli Federico II

Attended PhD Schools

Year	School title	Location	Credits	Dates	Organ	ization		
3 rd	8th International School on	Bolzano,	3.6	4-6 Luly	Free	University	of	Bozen-
	Software Engineering	Italy		2022	Bolza	no, Italy		

Attended Seminars

Year	Seminar Title	Credits	Lecturer	Lecturer affiliation	Organization
1 st	A dynamic and probabilistic orienteering problem	0.2	Prof. Claudia Archetti	ESSEC Business School in Paris	University of Napoli Federico II
1 st	Flexible two-echelon location-routing for supply networks	0.2	Prof. Claudia Archetti	ESSEC Business School in Paris	University of Napoli Federico II
1 st	Lo spazio cibernetico come dominio bellico	0.4	Dr. Giampiero Siroli	Università di Bologna	University of Napoli Federico II
1 st	Marked Point Processes For Object Detection And Tracking In High Resolution Images: Application To Remote Sensing Data	0.2	Prof. Josiane Zerubia	INRIA	University of Napoli Federico II
1 st	Cybersecurity and Fuzzing for Robots, Blockchain, and more	0.2	Dr. Antonio Ken Iannillo	University of Luxembourg	University of Napoli Federico II
1 st	Computational Biology: Large scale data analysis to understand the molecular bases of human diseases	0.2	Prof. Michele Ceccarelli	DIETI	University of Napoli Federico II
1 st	Elettromagnetismo e salute	0.2	Prof. Rita Massa	DIETI	University of Napoli Federico II
1 st	How to get published with IEEE	0.4	Eszter Lukacs	IEEE	Dott. Alessandra Scippa, Unina
1 st	Design e Nuove tecnologie. Possibili scenari per fronteggiare l'emergenza	0.2	Amleto Picerno Ceraso	Innovation Village 2020	
1 st	La programmazione europea e la ricerca. Nuovi scenari della	0.4	Ing. Filippo Ammirati	Innovation Village 2020	

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	programmazione europea dopo il 2020 - La gestione di un progetto di ricerca				
1 st	SAS Analytics	0.4	Dr. Cinzia Gianfiori	SAS Academic Program Manager	
1 st	Planning 5G under EMF constraints: challenges and opportunities	0.4	Prof. L. Chiaraviglio	, Univ. of Rome Tor Vergata	Dr.ssa A. Cacciapuoti, Dr. M. Caleffi - DIETI
1 st	Joint Design of Optics and Post-Processing Algorithms Based on Deep Learning for Generating Advanced Imaging Features	0.4	Raja Giyres	IEEE Computational Imaging Technical Committee	
1 st	Virtual Seminars on 'Sensing'	0.8	Dr. J. Wenger et al.		Plasmonica, Prof. Carlo Forestiere, DIETI
1 st	Bias from the wild	0.4	Prof. Nello Cristianini	CVPL - Associazione Italiana per la ricerca in Computer Vision, Pattern recognition e machine Learning	
1 st	Software Safety for Aerospace Applications	0.3	Alan Tribble	On-line course offered on the IEEE Xplore platform	
1 st	Amazon EC2 and S3 Hands-on	0.3	Cloud Strategy Partners LLC	On-line course offered on the IEEE Xplore platform	
1 st	Large Scale Training of Deep Neural Networks	0.4	Dr. Giuseppe Fiameni		
1 st	Noninvasive Mapping of Electrical Properties using MRI	0.3	Prof. Riccardo Lattanzi		Prof. R. Massa Dip. Fisica UNINA, Prof. G. Ruello Dieti UNINA
1 st	Exploring Autonomy in Robotic Flexible Endoscopy	0.4			Prof. Fanny Ficuciello
1 st	"Linear regression in PyTorch" and "Convolutional Neural Networks"	0.4	Dr. Christian Hundt	CINI AIIS Labs.	Dr. Giuseppe Fiameni
1 st	"Efficient Data Loading with DALI" and "Mixed Precision Training using Apex"	0.2	Dr. Giuseppe Fiameni et al.	CINI AIIS Labs.	Dr. Giuseppe Fiameni

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1 st	Wearable Brain-Computer	0.2	Prof. P.	DIETI	DIETI
•	Interface for Augmented	0.2	Arpaia,	DILII	DILII
	Reality-based		DIETI		
	Inspection in Industry 4.0				
1 st	Algorithmic Accountability	0.4	Dr. Joshua		Fondazione Ugo
	– Affidabilità e		A. Kroll		Bordoni
	responsabilità degli				
	algoritmi				
2 nd	Robot Manipulation and	0.5	Prof. Bruno	DIETI	Proff. Paolo Dario
	Control		Siciliano		and Cesare Stefanini
2 nd	Digital Project	0.2	Dr. Dario		Part of the Picariello
	Management: practices,		Carotenuto		Lectures on Data
	processes, techniques, tools,				Science
2 nd	and scientific approach. Science, Reality and	0.3	Prof. Saul		FuturoRemoto2020
	Credibility.	0.5	Perlmutter		T utulORCIII0t02020
2 nd	#andràtuttobene: Images,	0.3	Prof. Serena		Part of the Picariello
	Texts, Emojis and Geodata		Pelosi		Lectures on Data
	in a Sentiment				Science
	Analysis Pipeline				
2 nd	Patent Searching Best	0.2	Eszter	IEEE	Dott. Alessandra
	Practices with IEEE Xplore		Lukacs		Scippa
2 nd	JISET: JavaScript IR-based	0.2	Prof.	KAIST	Facebook Testing and
	Semantics Extraction		Sukyoung		Verification
2 nd	Toolchain	0.2	Ryu	LICI	Symposium
2""	Automatic Generation of	0.2	Prof. Federica	UCL	Facebook Testing and Verification
	Optimal Mutant Reduction Strategies		Sarro		Symposium
	Strategies		Barro		bymposium -
2 nd	Testing Web Enabled	0.2	Prof. Mark	UCL	Facebook Testing and
	Simulation at Scale using		Harman		Verification
	Metamorphic Testing				Symposium
2 nd	Metamorphic Testing of	0.2	Prof. Alistair	Imperial College	Facebook Testing and
	Android Graphics Drivers		Donaldson	London	Verification
2 nd	C - C	0.2	D., 6 D. 11	LICI	Symposium
- Z	Software robustness: A survey, a theory, and some	0.2	Prof. David Clark	UCL	Facebook Testing and Verification
	prospects		Clark		Symposium
2 nd	Using Developers'	0.2	Prof. John	Chalmers University	Facebook Testing and
	Intuitions to Improve	0.2	Hughes	Chamiers On Clary	Verification
	Property-Based Tests				Symposium
2 nd	CRISPR-cas9 screens and	0.3	Prof.	DIETI	Computational and
	multi-omic data integration		Francesco		Quantitative Biology
	for identifying		Iorio		Ph.D.
	and prioritising anti-cancer				Program (DIETI)
and —	therapeutic	0.2	D. C		D (C.1 D' 1.11
2 nd	Exploiting Deep Learning	0.2	Prof.		Part of the Picariello
	and Probabilistic Modeling		Giuseppe		Lectures on Data
	for Behaviour		Manco		Science

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	Analytics				
2 nd	GDPR basics for computer scientists	0.3	Dr. Rigo Wenning	Prof. Bonatti (DIETI)	DIETI
2 nd	Data Driven Transformation in WINDTRE through Managers voice	0.4	Prof. Marcella Savarese et al.		Part of the Picariello Lectures on Data Science
2 nd	From Photometric Redshifts to Improved Weather Forecasts: an interdisciplinary view on machine learning	0.2	Dr. Kai Polsterer	HITS	Part of the Picariello Lectures on Data Science
2 nd	Cybercrime and e-evidence: the criminal justice response	0.4	Dr. Matteo Lucchetti	Council of Europe	Part of the Picariello Lectures on Data Science
2 nd	AI: Artificial Intelligence for notary's sector - a case study	0.2	Dr. Salvatore Palange	FLUEL	Part of the Picariello Lectures on Data Science
2 nd	The era of Industry 4.0: new frontiers in business model innovation	0.2	Dr. Marco Balzano	University of Venice Ca' Foscari	Part of the Picariello Lectures on Data Science
2 nd	Machine learning: causality lost in translation	0.3	Dr. Edwin A. Valentijn	Rijksuniversiteit Groningen	Part of the Picariello Lectures on Data Science
2 nd	Signature reversion and other computational strategies for identifying drug repositioning opportunities	0.3	Prof. Francesco Iorio	DIETI	Organized by the Computational and Quantitative Biology Ph.D. Program
2 nd	Supporting machine learning with biological knowledge to extract insight from omics data	0.2	Prof. Julio Saez- Rodriguez		Organized by the Computational and Quantitative Biology Ph.D. Program
2 nd	Robo Ludens: A game design taxonomy for human-robot interaction	0.2	Dr. John Edison Munoz Cardona	University of Waterloo	Professor Silvia Rossi, PRISCA Lab DIETI
2 nd	Dai Mainframe all'IoT: una retrospettiva sull'evoluzione delle architetture di calcolo	0.2	Prof. Antonino Mazzeo	DIETI	Professor Alessandro Cilardo, DIETI
2 nd	Big Data and Computational Linguistics	0.4	Prof. Francesco Cutugno	DIETI	Part of the Picariello Lectures on Data Science
2 nd	The coming revolution of Data driven Discovery (a fourth Methodological Paradigm of Science)	0.3	Prof. Giuseppe Longo	UNINA	Part of the Picariello Lectures on Data Science
2 nd	IEEE Authorship and Open	0.3	Eszter	IEEE	

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	Access Symposium: Best		Lukács		
	Practices to Get		Lukues		
	Published to Increase the				
	Exposure and Impact of				
	Your Research				
2 nd	Artificial Intelligence and	0.4	Dr. Pietro	CNR	Prof. Antonia Tulino,
	5G combined with		Ferraro et al.		DIETI
	holographic technology:				
	a new perspective for				
	remote health monitoring		_		
2 nd	Distributional Semantics	0.2	Prof.	Università di	Part of the Picariello
	Methods: How Linguistic		Alessandro Maisto	Salerno	Lectures on Data Science
	features can improve the semantic		Maisto		Science
	representation				
2 nd	Risk assessment in real life:	0.3	Dr. E. Di	Hitachi Rail	Prof. Valeria
	experiences from the		Martino et		Vittorini – DIETI
	railway domain		al.		
2 nd	'Sadas Engine', an	0.3	Luca De	SADAS	Part of the Picariello
	innovative DBMS for the		Rosa		Lectures on Data
	DATA WAREHOUSE,				Science
	great performance in the VLDB environment				
2 nd	L'esposizione ai campi	0.8	Dr. S. Adda		Prof. Nicola Pasquino
_	elettromagnetici generati dal	0.6	et al.		(DIETI)
	sistema 5G -		00 u.s.		(21211)
	Metodologie scalari e				
	vettoriali di misura				
	dell'esposizione e tecniche				
and	di estrapolazione	0.4	D El:	TT ' ', C	G . C .1
2 nd	SAE 2021 - Big4small, Data	0.4	Dr. Edwin	University of Groningen	Session of the SAE2021 conference,
	Science Methodology Transfer: Big to Small		Valentijn et al.	Gronnigen	chaired by Prof.
	Transier. Dig to Sman		ai.		Giuseppe Longo
2 nd	Analyzing and Supporting	0.2	Prof. Antony	Visiting professor,	Prof. Paolo Tonella,
	the Evolution of Data-		Cleave	USI	Software Institute,
	Intensive Systems				USI
2 nd	Visualizing Discord Servers	0.2	Dr. Marco	USI	Prof. Paolo Tonella,
			Raglianti		Software Institute,
2 nd	Oighite atota of the aut and	0.4	De Fodorios	IDM Italia	USI Cassianusti
2	Qiskit: state of the art and tools for Quantum	0.4	Dr. Federico Accetta	IBM Italia	Prof. Cacciapuoti (DIETI)
	Computers from IBM		Accella		(DILTI)
	Companies from IDW				
2 nd	Quality Metrics and Oracles	0.2	Dr. Gunel	USI	Prof. Paolo Tonella,
	for Autonomous Vehicles		Jahangirova		Software Institute,
	Testing				USI
2 nd	Second Quantum	0.4	Dr. A.	TIM	Prof. Cacciapuoti
	Revolution: innovation		Manzalini		(DIETI)
	trends and expected				

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	industrial impacts				
3 rd	When does correlation imply causation?	0.2	Prof. C. A. Furia	Università della Svizzera Italiana	Università della Svizzera Italiana
3 rd	Do you understand the code that you write? 'I hope the Tas won't look at this!	0.2	Dr. A. Gallidabino	Università della Svizzera Italiana	Università della Svizzera Italiana
3 rd	Supporting code-related tasks via Deep Learning	0.2	Dr. A. Mastropaolo	Università della Svizzera Italiana	Università della Svizzera Italiana
3 rd	Automated Test Input Generation to Check if the Machine Actually Learned	0.2	Dr. V. Riccio	Università della Svizzera Italiana	Università della Svizzera Italiana
3 rd	Mobile Apps: The Dark Side of the Droid	0.3	Prof. A. Merlo	Università di Genova	Università della Svizzera Italiana
3 rd	Can a Text-to-Speech Engine Generate Human Sentiments?	0.2	Prof. Vijay K. Gurbani		Università di Napoli Federico II
3 rd	Software Product Line Management and Software Versioning in SADAS	0.4	Dr. Roberto Mosca	SADAS	Università di Napoli Federico II

Research activities

Luigi Libero Lucio Starace participated in research activities in the domain of End-to-End testing of web and mobile applications. In the domain of End-to-End web testing, the candidate tackled the problem of near-duplicate web page detection in the automatic generation of End-to-End tests for web apps. The candidate worked on the definition and on the empirical evaluation of two novel near-duplicate detection techniques. In the domain of End-to-End GUI testing of Android apps, the candidate worked on two empirical studies aimed at comparing the effectiveness of different testing techniques. Lastly, in the domain of non-functional end-to-end testing of web applications, the candidate worked on a novel solution to support the automatic generation of workloads for performance testing for web applications, starting from existing end-to-end tests.

Tutoring and supplementary teaching activities

Luigi Libero Lucio Starace carried out tutoring and supplementary teaching activities within B.Sc. ("Ingegneria del Software", "Object Orientation") and M.Sc. courses ("Software Project Management and Evolution", "Operating Systems for Mobile, Cloud, and IoT") in the Computer Science programs at the Università degli Studi di Napoli Federico II. Within these courses, Luigi Libero Lucio Starace prepared several seminar lectures and exercises. Moreover, during his Ph.D., Luigi Libero Lucio Starace co-supervised 14 B.Sc. in Computer Science students working on their curricular internships and theses, as well as 4 M.Sc. in Computer Science students working on their theses.

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Credits summary

PhD Year	Courses	Seminars	Research	Tutoring /
				Supplementary
				Teaching
1 st	30.7	7.9	32	1.6
2 nd	11.5	10.8	41	1.6
3 rd	3.6	1.7	57	1.6
тот	45.8	20.4	130	4.8

Research periods in institutions abroad and/or in companies

PhD Year	Institution / Company	Hosting tutor	Period	Activities
2 nd and	Università della Svizzera Italiana,	Paolo Tonella, Full Professor	01/10/2022 to	Research on Web Application Testing, near- duplicate detection techniques
3 rd	Software Institute, Lugano, Svizzera	and Chair of the TAU (Testing AUtomated)	31/12/2022	Lab experiments on novel near-duplicate detection techniques Joint scientific paper preparation.
		Laboratory		

PhD Thesis

In the PhD Thesis, Luigi Libero Lucio Starace presents contributions in the domain of End-to-End testing of web and mobile applications. The thesis is articulated in three main chapters, each of which presents the candidate's contribution in a different sub-domain of End-to-End testing, namely (1) GUI-level testing of web applications, (2) performance testing of web applications, and (3) GUI-level testing of Android applications.

In the first domain, the candidate presents two novel techniques, based on Machine Learning approaches, to address the for the near-duplicate detection problem, a key issue in the automatic generation of GUI-level tests for web apps. The effectiveness of the proposed techniques, as well as the practical benefits of their application in automatic test generation for web apps, are assessed in an empirical study involving massive datasets available in the literature and open-source web applications.

In the second domain, the candidates presents a novel technique for automating the generation of workloads for performance testing of web applications, starting from existing GUI-level web tests. The effectiveness of the proposed technique is preliminarily evaluated in an industrial case study. Results showed that the proposed approach is promising, and capable of automatically generating workloads that are comparable to those that are manually generated by practitioners.

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Lastly, in the third domain, the candidate presents two empirical studies aimed at investigating the effectiveness of different techniques for end-to-end GUI-level testing of mobile applications. The studies involve 20 masters' students and four open-source Android application. The first study aims at comparing the testing effectiveness of automatic test generation tools against that of unskilled practitioners using Capture and Replay tools and exploratory testing strategies. The second study focuses on a crowdtesting scenario in which crowdtesters use Capture and Replay tools to generate test suites for Android apps. Both studies provide useful insights to Software Project Managers and Decision Makers, on which they could make more informed decisions when establishing a testing strategy for a given mobile app.

Publications

Research results appear in 4 papers published in international journals, 0 papers published in national journals, 8 contributions to international conferences, 0 contributions to national conferences, 0 patents.

List of scientific publications

International journal papers

V. Casola, A. De Benedictis, S. Di Martino, N. Mazzocca, L. L. L. Starace, Security-aware Deployment Optimization of Cloud-Edge systems in Industrial IoT, *IEEE Internet of things Journal*, vol. 8 (16), pp. 12724-12733, 2021, DOI: 10.1109/JIOT.2020.3004732.

S. Di Martino, A. R. Fasolino, L. L. L. Starace, P. Tramontana,

Comparing the effectiveness of capture and replay agains automatic input generation for android graphical user interface testing,

Software Testing, Verification and Reliability, vol. 31 (3), 2021, DOI: 10.1002/stvr.1754

D. Asprone, S. Di Martino, P. Festa, L. L. Starace,

Vehicular crowd-sensing: a parametric routing algorithm to increase spatio-temporal road network coverage,

International Journal of Geographic Information Science,

vol. 35 (9), pp. 1876-1904, 2021, DOI: 10.1080/13658816.2021.1893737

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S. Di Martino, L. L. Starace,

Towards Uniform Urban Map Coverage in Vehicular Crowd-Sensing: a Decentralized Incentivization Solution.

IEEE Open Journal of Intelligent Transportation Systems, vol. 3, pp. 695-708, 2022, DOI: 10.1109/OJITS.2022.3211540.

International conference papers

M. Benerecetti, U. Gentile, S. Marrone, R. Nardone, A. Peron, L. L. L. Starace, V. Vittorini, From Dynamic State Machines to Promela, 26th International SPIN Symposium on Model Checking of Software, Beijing, China, 2019, pp. 56-73, Springer, DOI: 10.1007/978-3-030-30923-7 4.

F. Altiero, A. Corazza, S. Di Martino, A. Peron, L. L. L. Starace, Inspecting code churns to prioritize test cases, 32nd IFIP International Conference on Testing Software and Systems, Naples, Italy, Dec. 2020, pp. 272-285, Springer, DOI: 10.1007/978-3-030-64881-7_17.

M. Benerecetti, F. Mogavero, A. Peron, L. L. L. Starace, Expressing structural temporal properties of safety critical hierarchical systems, 14th International Conference on the Quality of Information and Communications Technology, Algarve, Portugal, Sep. 2021, pp. 356--369, Springer, DOI: 10.1007/978-3-030-85347-1_26.

S. Di Martino, L. L. Starace,

Vehicular Crowd-Sensing on Complex Urban Road Networks: A Case Study in the City of Porto, 24th Euro Working Group on Transportation,
Aveiro, Portugal, Sep. 2021, pp. 350-357, Elsevier, DOI: 10.1016/j.trpro.2022.02.044.

A. Corazza, S. Di Martino, A. Peron, L. L. L. Starace,

Web Application Testing: Using Tree Kernels to Detect Near-duplicate States in Automated Model Inference,

15th IEEE/ACM International Symposium on Empirical Software Engineering and Measurement, Bari, Italy, Oct. 2021, ACM, DOI: 10.1145/3475716.3484187.

F. Altiero, A. Corazza, S. Di Martino, A. Peron, L. L. L. Starace, ReCover: a Curated Dataset for Regression Testing Research, 19th International Conference on Mining Software Repositories, Pittsburgh, USA, May 2022, pp. 196-200, ACM, DOI: 10.1145/3524842.3528490.

L. L. Starace, A. Romdhana, S. Di Martino GenRL at the SBST 2022 Tool Competition, 15th IEEE/ACM International Workshop on Search-Based Software Testing (SBST), Pittsburgh, USA, May 2022, IEEE, DOI: 10.1145/3526072.3527533.

F. Altiero, G. Colella, A. Corazza, S. Di Martino, A. Peron, L. L. L. Starace, Change-Aware Regression Test Prioritization using Genetic Algorithms, 48^h Euromicro Conference on Software Engineering and Advanced Applications, Gran Canaria, Spain, Sep. 2022, to appear in the proceedings.

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Patents and/or spin offs

None.

Awards and Prizes

None.

Date 19/11/2022

PhD student signature

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Supervisor signature