University Academic Curriculum Vitae

Personal information	Name: Barbara Russo
	Place and date of birth: Belluno, May 16th, 1968
	Nationality: Italian
	Address: via della vigna, 1, 39100, Bolzano
	Telephone numbers:
	− Mobile: +39 320 9224195
	− Office: +39 0471 016170
	E-Mail: barbara.russo@unibz.it
Education since leaving school	1991, Master of Science in Mathematics (Laurea vecchio ordinamento), University of Trento, Italy. *Grade 110 cum laude.* The thesis's work was *awarded* with a scholarship for graduands of the *Consiglio Nazionale delle Ricerche* (CNR)
	1996, **PhD in Mathematics** (Dottorato di ricerca in Matematica), Facoltà di Scienze Matematiche, Fisiche e Naturali, University of Trento, Italy, with final evaluation: *excellent*.
	2017, **Abilitazione scientifica nazionale** a professore ordinario, Bando D.D. 1532/2016, settore concorsuale: ***01/B1** Informatica*
	2018, **Abilitazione scientifica nazionale** a professore ordinario, Bando D.D. 1532/2016, settore concorsuale: ***09/H1** Sistemi di Elaborazione delle Informazioni*
Present appointment	March 1st, 2005 - today, associate professor (Professore di II fascia) at the Faculty of Computer Science, Free University of Bozen-Bolzano, Italy. Scientific Sector: *INF/01 Informatica*; *tenured on March 1st, 2008*
	Current Major Responsibilities:
	− Coordination and participation to research / industry projects, e.g., Unit coordinator of the national research project *PRIN2015 - GAUSS*;
	− Director of the MSc degree course European Masters Program in Software Engineering (EMSE);
	− Coordinator of the consortium of universities of the *Erasmus Mundus* European Masters Program in Software Engineering (EMSE) since 2012;
	− Member of the Teaching Committee of the PhD course in Computer Science of the Faculty of Computer Science since 2003 and since 2019 of the PhD course in Advance systems-engineeing of the Faculty of Science and Technology;
	− Member of the Bitz FabLab board
	− Supervision of BSc, MSc and PhD theses;
	− Teaching in MSc programs

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Professional experience

From / to	Job title	Name of academic Institution	Academic level	Responsibilities
01/10/2003 - 28/02/2005	Ricercatore INF/01 a tempo indeterminato, non confermato	Free University of Bozen-Bolzano	Researcher	Researcher
02/05/2002 - 01/05/2003	Collaborazione Coordinata e Continuativa per attività di ricerca	Free University of Bozen-Bolzano, Italy	Scientific collaborator	Research activity
04/03/2001 - 21/07/2001	**Post-doc scholarship, 'Human Potential Programme of the European Commission - 5th Framework Programm, Contract n. HPRN-CT-2000-00099**	University of Liverpool	Post-doc research fellow	Research activity
01/08/2001 - 31/10/2001	Collaborazione Coordinata e Continuativa per attività di ricerca	University of Trento, Italy	Scientific collaborator	Research activity
01/071999 - 30/06/2001	Assegno di Ricerca	University of Trento, Italy	Post-doc research fellow	Research activity
01/01/1997 - 01/01/1999	Post-doc scholarship	University of Trento, Italy	Post-doc research fellow	Research activity
01/08/1997 - 31/10/1997	Post-doc scholarship	**Max Plank Institute für Matematik, Bonn, Germany**	Post-doc research fellow	Research activities
14/04/1996 - 30/09/1996	Graduate scholarship abroad	University of Trento, Italy	Graduate research fellow	Research activity
1991-1996	PhD scholarship, MIUR	University of Trento, Italy	PhD student	Research activities
1990-1991	Scholarship for graduands	Consiglio Nazionale delle Ricerche, University of Trento, Italy	Undergraduate scholarship for merit and research startup (borsa di studio per laureandi per avviamento alla ricerca)	Thesis's work that resulted in the journal publication in Comm. Algebra (1992), no. 12, 3729–3740

Experience in academic teaching

Summary of significant personal achievements in academic teaching

Type	Major achievements
Total educational grants as principal investigator	3,543,106.07 Euro
Teaching appointment at national level	2009 - 2013 Member of the national teaching commission in Computer Science of the Italian Research Group - Gruppo di Ricerca Informatica Nazionale (GRIN)
Coordination of International educational projects	2015 - 2020 Erasmus Mundus – consortium coordinator 2012 – 2014 Tempus IV, JMSE project– unit coordinator 2017 - 2012 Erasmus Mundus – unit coordinator 2013 - 2015 MOY – consortium coordinator 2013 - 2015 Double Degree Master in Software Engineering (DDMSE) – consortium coordinator
Teaching awards	2015 Erasmus Mundus grant recipient and consortium coordinator 2013 Erasmus Mundus Brand Name award and consortium coordinator 2013 MOY grant recipient and consortium coordinator 2007 award of the Fondazione Mai of the Italian Association for Enterprises for the dual Bachelor in Computer Science (Laurea alternanza studio lavoro) 2007 - 2012 Erasmus Mundus unit coordinator 2010, IEEE Lance Stafford Larson award for the best BSc thesis
Number of PhD supervisions	8 (6 completed)
Number of MSc supervisions	22
Number of new programs established at Faculty of Computer Science of the Free University of Bozen-Bolzano	3 MSc programd (accredited as "interateneo international program" at the Italian Ministry) and 1 dual BSc program
Advanced school for PhD students and professionals	Since 2014: founder and organizer of the annual International PhD School SESchool, (e.g., http://seschool2018.inf.unibz.it)

Educational grants

Date granted	Funding Body	Title	Amount received (Euro)
Total educational grants obtained as Project coordinator			**2,046,000**
2015 - 2020	EACEA Erasmus Mundus Contract No.532552-EM-1-2012-1-IT-ERA MUNDUS-EMMC	Scholarships for the European Masters Program in Software Engineering	1,950,000
01/11/2012 - 31/10/2015	Foundation of the Free University of Bozen-Bolzano	Scholarships for European Masters Program in Software Engineering	96,000
Total educational grants obtained as Unit coordinator			**1,497,106**
2012 - 2016	TEMPUS program Contract nr: 530637 TEMPUS -1 -2012 -1 PS TEMPUS JPRC, 2012 3062/001 - 001	Establishing a Joint Master in Software Engineering in Middle Est (JMSE)	45,106
2007 - 2012	EACEA Erasmus Mundus Contract No. No.:2007-0065	Scholarships for the European Masters Program in Software Engineering	1,452,000

Over the years, my major mission in teaching was to establish and maintain international programs at the master level and initiatives at the bachelor level that promote internships and dual activities (work & study) with companies. To this aim, I designed study courses, created their organizational frameworks, gathered funds to support such programs, and involve companies for students' internships and theses. *In particular, I distinguished myself in the faculty as,* **since 2012, I raised funds for more than 2.1 MIO Euro** for students' scholarships and scholars' grants. The following list summarizes the achievements I obtained.

− 2016 **Accreditation** to the Ministry of University and Research (MIUR) of the *European Masters Program in Software Engineering* (EMSE) of the Faculty of Computer Science, Free university of Bozen-Bolzano, Italy as an *interateneo international program*

− 2015 - 2020 **Recipient of the Erasmus Mundus grant** (*1,950,000.00 Euro*, contract No.532552-EM-1-2012-1-IT-ERA MUNDUS-EMMC) as **consortium coordinator** of the *European Master Program in Software Engineering* (EMSE) of the Faculty of Computer Science, Free university of Bozen-Bolzano, Italy. On October 12ve 2017 the EMSE

program got **90/100** points for the intermediate quality evaluation of the project officer of the EACEA agency of the European Commission.

− 2012 - today **Coordinator of the consortium of universities** and the *European Masters Program in Software Engineering* (EMSE) of the Faculty of Computer Science, Free university of Bozen-Bolzano, Italy

− 2012 - 2016 **Unit coordinator** of the project *Joint Master in Software Engineering* (JMSE) (***45.106,07 Euro*** grant nr: 530637 TEMPUS -1 - 2012 -1 PS TEMPUS JPRC, 2012 3062/001 - 001) to establish a joint master degree in Software Engineering in the Middle EST

− 2015 - 2017 **Founding member and coordinator for the Faculty of Computer Science** of the *Bitz FabLab* of the Free University of Bozen-Bolzano

− 2012 - 2014 **Recipients of grant** for 8 scholarships (***96,000.00 Euro***) of the Foundation of the Free University of Bozen-Bolzano for the *European Masters Program in Software Engineering* (EMSE) of the Faculty of Computer Science, Free university of Bozen-Bolzano, Italy

− 2013 - 2015 **Coordinator** of the **Double degree MSc program** *Double Degree Master in Software Engineering* (DDMSE) between the Faculty of Computer Science of the Free University of Bozen-Bolzano and the Universidad Politécnica de Madrid February,

− 2013 **Recipient of the grant** from the program MOY - Mediterranean Office for Youth for the program *Double Degree Master in Software Engineering* (DDMSE) between the Faculty of Computer Science of the Free University of Bozen-Bolzano and the Universidad Politécnica de Madrid

− 2011-2013 **Coordinator** of the *International double degree MSc programme* between the Faculty o Computer Science of the Free University of Bozen-Bolzano and the *University of Latvia*, Latvia

− December 15th, 2010, **IEEE Lance Stafford Larson award** for the BSc thesis of Diego Marmsoler under my supervision

− June, 5th 2007 **Recipient of the award** for the best example of public-private collaboration by the "Fondazione Mai" of the Italian Association of Enterprises (**Confindustria**) for the *dual BSc program "Laurea alternanza studio lavoro"*

− 2007 - 2012 **Establishment and coordination** of the *dual BSc program Laurea alternanza studio lavoro* for the Faculty of Computer Science, Free University of Bolzano-Bozen, Italy

− 2007 - 2012 **Recipient of the Erasmus Mundus grant** (contract No.:2007-0065) as **unit coordinator** of the *European Masters Program*

in Software Engineering (EMSE) of the Faculty of Computer Science, Free university of Bozen-Bolzano, Italy

– 2005 **Establishment** of the *European Masters Program in Software Engineering* at the Faculty of Computer Science, Free University of Bozen-Bolzano, Italy

Innovative methods of teaching in the last five years

– In 2017 the project of the course Verification and Validation has been **developed in collaboration with the company Wuerth Phoenix srl**. Students built new high performant algorithms to test part of the ERP software of the company. Such algorithms have been implemented and run in a final test game at the company.

– Since 2014, I am organizing an international annual summer school for **PhD students and professionals**. For 2017 edition, the school has been also opened to the students of the EMSE program.

– 10-07-2016 - 25-07-2016, **lecturer** of Software Testing at Joint Master School in Software Engineering, University of Koblenz-Landau, Koblenz, Germany, July 10-25 2016. This school was organized within the *JMSE* TEMPUS IV project. My role in the JMSE project was to help the non-European Partners to establish an MSc program in Software Engineering according to the Bologna Framework. My lecture at the school was to teach students and professors of the newly created MSc the major principles of testing according to such framework.

– In the A. Y. 2015/2016, I have organized a **workshop** on building small prototypes with the micro-electronic platform **Arduino,** for the students of my course Advanced Programming

http://www.inf.unibz.it/~russo/ArduinoWorkshop.html.

The workshop involved 40 students and was run by *two teachers of the team of Arduino*, Ivrea. The goal of the workshop was to introduce students of the course to the world of electronics in a simple manner. The students were enthusiastic. Thank to such experience, the Faculty of Computer Science has decided to offer more courses that expose computer science students to micro-electronics, one example is the *Maker Lab* course that will be permanently offered in the BSc program of the Faculty from 2017/2016.

– 2014 - 2016 Establishment and coordination of the **makerspace laboratory** at the Faculty of Computer Science, Free University of Bozen-Bolzano, (makerspace.ing.unibz.it). The laboratory had the goal to bring computer science students closer to the concept of "learn by doing" and introduce them to the world of the micro-electronic and 3D design and printing. The lab has been the precursor of the current Bitz - FabLab of the Free University of Bolzano.

PhD supervisions (8 students – 6 completed)

– 2017 *Florian Hofer*, Enhancing Security and Reliability for Smart-* Systems Architectures, PhD in Computer Science, XXXIII Cycle

– 2012 - 2015 *Anton Borisov Georgiev* Computing-Oriented Optimization Techniques for Energy-Aware Mobile Software Design, PhD in Computer Science, XXVII Cycle

– 2012 – 2015 *Alexey Sidelnikov* Fault Tolerance models and testing in Real Time Cloud Computing, PhD in Computer Science, XXVII Cycle

– 2010 – 2013 *Maximilian Steff* New Structural Views in Software Evolution to Understand Faults: Linking Product and Process, PhD in Computer Science, XXV Cycle

– 2009 - 2015 *Emiliano Lutteri* Consultant Activities in ERP projects, PhD in Computer Science, XXIV Cycle

– 2008 - 2012 *Fabio Mulazzani* Developing and DeployingBusiness Process Alignment Probesto Enhance Organization's StrategicControl, PhD in Computer Science, XXII Cycle

– 2005 – 2008 *Bruno Rossi* Towards a Simulation Model including Network Externalistes in Free/Libre Open Source Software Adoption, PhD in Computer Science, XX Cycle

– 2005 *Paolo Gasperi* PhD in Computer Science, XX Cycle

Supervision of BSc and MSc students of the Faculty of Computer Science, Free University of Bozen-Bolzano*:*

MSc (22 students)

Ongoing: Hamek Chouaib on "Recommendations system for Music tutoring marketplace."

Filip Rusak (MSc) on "Investigation into machine Learning Based Lung Field Segmentation for Thoracic Diseases Diagnosis",

Masa Reko on "Design and Implementation of a Scalable Distributed Data Collection Architecture for a European Wide Flu Monitoring System" co-supervison

2018 Kalinka Cicarska (MSc) on "Improving SAP Corporate Search engine by implementing user needs obtained from user feedback and usage data," co-supervison

2017 Florian Hofer (MSc), on "IEC 61131-3 Software Testing: a portable solution for CoDeSys v2.3". He has started a PhD study in CS at the Free University of Bozen-Bolzano under my supervision)

2016 Maximilian Gierschman on "Detecting and Visualizing Anomalies over VMware Performance Data

2016 Javier Alonso Viana on "Systematic Mapping Study onAutomated

Usability Evaluation" co-supervison

2015 Ardhinata Taufan Harsilo on "A New Method to Mine Software Projects Repository and Analyze the Effects of Sentiment in Code Review"

2015 Lukstins Karlis on "The Role of Large Structural and Code Changes in the Bug History of Open Source Projects"

2013 Tri Linh Nguyen "Building theory from empirical evidence: analysis repetitions over Open Source Pro jects"

2013 Artiona Bogo, recipient of the ACM-W/Microsoft Research Scholars

http://womendev.acm.org/participate/scholarship/microsoft-recipients-2013.cfm

2013 Luis Carlos Chacon "Adding Usability Mechanisms into Agile Requirements: Tool Support with U-Kunagi" co-supervision

2011 Aldo Doronzo "Improving Business Process Performance by detecting and Managing Business Exceptions: A case study on the utility sector of SAP ERP "

2011 Antononius Hermawan "Recommender System For ERP (SRS)"

2010 Taslim Arif "Cost-Value Based Prioritization Considering Requirement Dependencies" co-supervison

2010 Berliana Topan on the topic "Software Reliability Models of Open Source Software: An Empirical Analysis across Google Chrome and OpenOffice Releases"

2010 Joseph Hardi on the topic "Virtual Organizational Learning of Core and Periphery Participants: The Case of Google Chromium Project"

2010 Romuald Tymsan "Practical SDTM special purpose and standard domains implementation with Clintrial"

2009 Lubomır Karlık on the topic "Complex Event Processing in the Internet of Things Middleware" co-supervison

2009 Cheng Chow Kian "A Measurement Framework for Evaluating Software Process Improvement Initiatives" co-supervision

2007 Rita Moskeviciute "Design of Business Processes via Petri nets and modeling of Multiple Workflows in an extended Open Source document management system"

BSc (13 students)

Ongoing: Chiara Masci on "Human Centered Software Engineering"

2019 Emanuela Calabi on "Development and Testing of a Sensor Cleaning System for Autonomous Driving" in collaboration with Roeachling automotive.

2019 Samuele Ceol on "Automated Testing in a Microsoft Dynamics 365 Environment" in collaboration with Wuerth Phoenix srl

2016 Daniele Gadler (BSc, he started a MSc study in CS at Sant'Anna Pisa, Italy), on "Mining data to model system usage with Hidden Markov Models"

2016 Michele Pettinato (BSc, he started a MSc study in CS at Losanne, Swisserland), on "Topic Modelling of Atacama Large Millimeter Array telescope's system logs"

2016 Marta Pancaldi (BSc, she started a MSc study in CS at University of Manchester, UK), on "Studying the change impact of self-admitted technical

debt for reverting / upgrading software verisions in emergent systems of systems"

2016 Saifur Salam (BSc), on "Smart Medicine Dispenser and Reporter: Designing prototype that assists people with mental impairments"

2014 Marco Lanca Fischnaller on "Datahandling and Visualisation of Hydraulic Simulations"

2012 Alessio Trazzi "AGILE FRAMEWORK: Web based application for research collaboration in agile experiments"

2011 Corneliu Ilisescu "Proxy-based estimation tool: predicting software size using historical data derived from source code"

2011 Manuel Piubelli "OSSQuery A Data Mining System for Investigation on Cause - Effect Relations in OSS"

2010 Diego Marmsoler "Applying the Scientific Method in the Definition and Analysis of a new Architectural Style" (award from IEEE Computer Society "Best Student Paper" Lance Stafford Larson award)

2009 Aldo Doronzo "Building a performance dashboard for business processes over an ERP system according to the GQM paradigm"

Major teaching activities

I have taught at the undergraduate and graduate level different types of courses from the ones in *pure mathematics (until 2002) to the ones in computer science and software engineering (since 2002).*

In the last five years I taught courses in software development and engineering. All courses balance between theory and practice (frontal lecture and project development). Some courses are more programming oriented like *Advanced Programming and Programming Project*) others focus on techniques for the empirical investigation with projects on repository mining and scripting for data analytics (*Empirical Software Measurement*) others teach mathematical advanced techniques and advance programming to develop competence and tools for the maintenance of software systems. The research method course introduces students of three different programs to the research investigation. In the last year, the course *included the visit to four different local companies to gather in filed evidence and develop a systematic mapping study on Industry 4.0*

Doctoral schools

- July 11-15, 2011 teacher at the PhD CASE summer school, Free University of Bolzano, Italy with tutorial on Practical Experimentation in Software Engineering,

- July 19-23, 2010, teacher at the PhD CASE summer school, Free University of Bolzano, Italy with tutorial on Non-invasive Software Product and Process Measurement,

- July 6- 10, 2009, teacher at the PhD CASE summer school, Free University of Bolzano, Italy with tutorial on Applied Software Process Management and Testing

- November 11-26, 2008, Invited teacher at the International PhD School "e-business management" XXIII cycle, Scuola Superiore ISUFI, Lecce, Italy with tutorial on IT governance

Courses given in the last five years at the Free University of Bozen-Bolzano

Post-graduate

A.Y. 2018-2019, 2017-2018, 2016-2017

Lecturer of the MSc course *Research Methods* (2 ECTS - 18 hours), for the programs: MSc in Computer Science, European Masters Program in Software Engineering and European Masters in Computation Logic of the Faculty of Computer Science - Free University of Bolzano-Bozen, Italy, Computer Science, *post - graduate*

Lecturer of the MSc course *Verification and Validation (also called Software Reliability and Testing)* (8 ECTS - 72 hours), for the programs: MSc in Computer Science, European Masters Program in Software

Engineering, Faculty of Computer Science - Free University of Bolzano-Bozen, Italy, Computer Science, *post - graduate*

A.Y. 2015-2016

Lecturer of the MSc course *Software Reliability and Testing* (8 ECTS - 72 hours), Faculty of Computer Science - Free University of Bolzano-Bozen, Italy, Computer Science, *post - graduate*

A.Y. 2014-2015

Lecturer of the MSc course *Software Reliability and Testing* (8 ECTS - 72 hours), Faculty of Computer Science - Free University of Bolzano-Bozen, Italy, Computer Science, *post - graduate*

A.Y. 2013-2014

Lecturer of the MSc course *Software Reliability and Testing* (8 ECTS - 72 hours), Faculty of Computer Science - Free University of Bolzano-Bozen, Italy, Computer Science, *post – graduate*

A.Y. 2012-2013

Lecturer of the MSc course *Empirical Software Measurement* (8 ECTS - 72 hours), Faculty of Computer Science - Free University of Bolzano-Bozen, Italy, Computer Science, *post - graduate*

Under-graduate

A.Y. 2015-2016

Lecturer of the BSc course *Advanced Programming* (8 ECTS - 48 hours), Faculty of Computer Science - Free University of Bolzano-Bozen, Italy, Computer Science, *under - graduate*

A.Y. 2014-2015

Lecturer of the BSc course *Advanced Programming* (8 ECTS - 48 hours), Faculty of Computer Science - Free University of Bolzano-Bozen, Italy, Computer Science, *under - graduate*

A.Y. 2013-2014

Lecturer of the BSc course *Advanced Programming* (8 ECTS - 48 hours), Faculty of Computer Science - Free University of Bolzano-Bozen, Italy, Computer Science, *under - graduate*

A.Y. 2012-2013

Lecturer of the BSc course *Programming Project* (8 ECTS - 48 hours), Faculty of Computer Science - Free University of Bolzano-Bozen, Italy, Computer Science, *under - graduate*

Other academic responsibilities	**Internal appointments to faculty and university boards**

- 2019 **Member** of the *PhD teaching commission* of the PhD course in Advanced-Systems Engineering *of the Faculty of Science and Technology*

- 2012 – today **Coordinator of the consortium of universities** of the European Masters Program in Software Engineering funded by the *Erasmus Mundus Program,* www.em-se.eu;

- 2017 **Faculty representative** (together with Marco Montali) at *Il Comprensorio Bolzano Città incontra la Libera Università di Bolzano*, a meeting to foster joint innovation activities of UNIBZ and local industries

- 2016 - today **Director** of the Master course program (Laurea magistrale) *European Masters Program in Software Engineering* of the Faculty of Computer Science

- 2015 - 2017 **Founding member and coordinator for the Faculty of Computer Science** of the *Bitz FabLab* of the Free University of Bozen-Bolzano

- 2014 - 2017, **Founder and Director** of the *Software and Systems Engineering Research Group* (SwSE) of the Free University of Bozen-Bolzano

- July 2014 - December 2014, **Founder and coordinator** of the *makerspace laboratory* at the Faculty of Computer Science of the Free University of Bozen - Bolzano, https://makerspace.inf.unibz.it

- 2013 - today **Academic Erasmus representative** for the Faculty of Computer Science for the following bilateral agreements: Bekinge Tekniska Hogskola, Sweden, Universidad Politécnica de Madrid, Spain, Technical University of Kaiserslautern, Germany, University of Oulu, Finland

- 2004 - 2019 **Member** of the *PhD teaching commission* of the Faculty of Computer Science

- 2015 **Member** of the *admission commission* to the Master of Computer Science

- 2014 - today, **Member** of the *Research's Quality Commission* (CAQR) of the Faculty of Computer Science

- 2012 - 2013, **President** of the *commission for the admission to the PhD course in Computer Science* XXVIII and XXIX cycle.

- 2009 - 2013, **Director** the *Master Course Program in Computer Science* (Laurea Magistrale in Informatica) of the Faculty of Computer Science

- 2009 - 2011 **Member** of the *selection committee for teachers and teaching assistants* of the courses at the Faculty of Computer Science

- 2008 - 2015 **Member** of the *selection committee for PhD admission*

- 2007 - 2009 **Member** of the *Council of the Bachelor Program in Applied*

Computer Science

- 2007 – today **Coordinator** of the Erasmus+ exchange programs with Universität Kaiserslautern, Germany, University of Oulu, Finland, Universidad Politécnica de Madrid, Spain, Blekinge Tekniska Högskola, Sweden.

- 2005 - 2011 **Rector's reference person** and representative for the Free University of Bozen-Bolzano of the Italian *NetVal - Network per la Valorizzazione della Ricerca* http://netval.it

- 01.03.2005 al 01.01.2009, **Rector's delegate** for the *Liaison Offices e technology transfer*

- 2007 - 2008 **Founding member** of the *Equal Opportunity Body* of the Free University of Bozen-Bolzano

Internal Member of the PhD final exam commission

- 2014, Sarunas Marciuska, on the topic "Towards Field Methods and Tools forMonitoring End-User Value of Software Features" Free University of Bozen-Bolzano, Italy

- 2013, Markus Innerebner, on the topic "Isochrones on Multimodal Spaces"Free University of Bozen-Bolzano, Italy

- 2013 Dmitriy Zheleznyakov on the topic "Logic-Based Evolution of Knowledge Bases: The Case of Lightweight Dls"

- 2011, Michail Kazimianec, on the topic "Proximity Graphs for String Clustering and Similarity Joins" Free University of Bozen-Bolzano, Italy

Third mission activities with high schools in the last five years

- August 24th 2017, **Teacher** of *Lezione di Informatica: Your Software Crashes? It is all about Bugs ... you can even make a Profession by Finding them* for the ***Settimana di Orientamento in collaborazione con UniTrento*** organized by the Advisory Service of the Free University of Bozen-Bolzano

- April, 1st 2016, **Co-organizer** of the *Arduino Day* at the Free University of Bozen-Bolzano. I was responsible to coordinate the exhibitions of the schools that participated in the event

- 2015 -2017 **Organizer and teacher** of the Lab Informatik *Internet of Things* (for the last two years together with Sergio Tessaris) for the event *Projekt Rendezvous mit dem Traumberuf* organized by the Advisory Service of the Free University of Bozen-Bolzano

External appointments at national and international level

– 2019 January 28, **External member** of the selection commission for the call of an *RTD A (senior)* position at the University of Milan, Italy.

– 2018 July 18-19, **External member** of the selection commission for the call of an *RTD A (senior)* position at the University of Cagliari, Italy.

– 2018 **Member of advisory board** of the European H2020 project Q-Rapids (www.q-rapids.eu) lead by Universidad Politécnica de Catalunya

– 2012 - today, **Coordinator** of the *consortium of universities* Erasmus Mundus *European Masters Program in Software Engineering* (EMSE)

– 2012 -2013 Expert for the Education, Audiovisual and Culture Executive Agency in Erasmus Mundus Programme

– 2011 - 2013 **Coordinator** of the *consortium for the international double degree MSc programme* between the Faculty of Computer Science of the Free University of Bozen-Bolzano and the University of Latvia, Latvia

– 2007 - today **Invited member** of the *International Software Engineering Research Network* (ISERN), isern.de

– 2009 - 2014 Member of the **Steering Committee** of the *International Software Engineering REsearch NEtwork* (ISERN) , isern.de

– 2007 - 2012 **Unit Coordinator** of the *consortium of universities* Erasmus Mundus *European Masters Program in Software Engineering* (EMSE)

– 2009 - 2013 **National evaluator** of the Italian "Bollino GRIN" for BSc and MSc courses

– 2009 - 2013 **Member** of the *teaching commission* of *Gruppo di Ricerca Informatica Nazionale* (GRIN)

– 2009 **Technical reviewer** for the Ripartizione 34 Innovazione, Ricerca, Sviluppo e Cooperazione - Province of Bolzano, Italy

– 2007 – **External reviewer** for the tenurship of Dr. J. Brian Adams - Department of Mathematics and Computer Science at Franklin & Marshall College, US

External member of PhD final exam commissions

– May 2019, External member of the commission for the PhD thesis

defense of Fiorella Zampetti, University of Sannio, Italy

- October 4th 2017, Bogdan Marculescu, *Interactive Search-Based Software Testing*, Blekinge Teknisga Högskola, Blekinge, Sweden

- September 19th 2017, Jasmin Ramandani, *Mining Software Repositories for Coupled Changes*, University of Stuttgart, Germany

- March 18th 2014, *all students* of the PhD course - XXVI cycle in Computer Science, Faculty of Sciences (Facoltà di Scienze Matematiche Fisiche e Naturali) of the University of Milano, Italy

- October 30th, 2009, Martin F. Krafft, *A Delphi study of the influences on innovation adoption and process evolution in a large open source project: The case of Debian*, University of Liverpool, UK

Charing / Organization of conferences / exhibitions

Program co-chair

- The 13th Symposium on Empirical Software Engineering and Measurement (**ESEM2019**), 2019, Recife, Brazil, September 16-20 2019, http://eseiw2019.com/esem/

- Doctoral Symposium of the Foundation of Software Engineering conference (**ESEC/FSE2019**), 2019, Tallin, Estonia, 26-30 August 2019, http://esec-fse19.ut.ee

- The 16th International Conference on Product-Focused Software Process Improvement (**PROFES2015**), Bolzano, December, 2-4, 2015, http://profes2015.inf.unibz.it

- The 22nd annual meeting of the International Software Engineering Research Network (**ISERN2014**), September 15-16 2014, Torino, Italy, http://softeng.polito.it/ESEIW2014/committees.html

- The 4th International Symposium on Data-driven Process Discovery and Analysis (**SIMPDA2014**), November 19-21, 2014 - Milan, Italy http://simpda2014.di.unimi.it

- The 21nd annual meeting of the International Software Engineering Research Network (**ISERN2013**), October 7-8, 2013, Baltimore, MA, US, http://umbc.edu/eseiw2013/committees.shtml

- Doctoral Symposium Chair - the 14th International Conference on Product-Focused Software Process Improvement (**PROFES2013**), Paphos, Cyprus, June 12, 2013, https://profes2013.cs.ucy.ac.cy/index.php?p=Organization

- The 7th International Conference on Open Source Systems (**OSS2011**), October 5-8, 2011, San Salvador, Bahia, Brazil, (program chair) http://www.springer.com/br/book/9783642244179

- Short papers and poster -The 4th International Symposium on Empirical Software Engineering and Measurement, (**ESEM2010**), September 16-17, Bolzano, Italy, http://www.esem-conferences.org/2010/shortpaperscommittee.html

- The 4th International Conference on Open Source Systems (**OSS2008**), September 7-10, 2008, Milan, Italy, http://oss2008.di.unimi.it/index.php?id=officials.htm

- Doctoral Symposium Chair - the Fifth International Conference on eXtreme Programming and Agile Processes in Software Engineering (**XP2004**), Garmisch-Partenkirchen, Germany, June 6-10, 2004

- Poster and Demonstration Chair - the 6th International Conference on eXtreme Programming and Agile Processes in Software Engineering (**XP2005**), June 18-23, 2005, University of Sheffield, UK, https://people.cs.kuleuven.be/~dirk.craeynest/ada-belgium/events/05/050618-xp.html

- Doctoral Symposium Chair - the 1st International Conference on Open Source Systems (**OSS2005**), Genova, Italy, July 11 - 15, 2005, http://web.archive.org/web/200412070 64722/http://oss2005.case.unibz.it/organization.html

Organizing chair
- September 13-17 2010 Organizing chair of the 4th International Symposium on Empirical Software Engineering and Measurement (**ESEM2010**), 2010, Bolzano, Italy, http://www.esem-conferences.org/2010/organizingcommittee.html

General chair
- July, 9-12 2019 PhD Summer school in Software Engineering **SESchool**, Free University of Bozen-Bolzano, seschool2019.inf.unibz.it

- July, 9-12 2018 PhD Summer school in Software Engineering **SESchool**, Free University of Bozen-Bolzano, seschool2018.inf.unibz.it

- September, 4-7 2017 PhD Summer school in Software Engineering **SESchool**, Free University of Bozen-Bolzano, seschool2017.inf.unibz.it

- September, 13-15 2016 PhD Summer school in Software Engineering **SESchool**, Free University of Bozen-Bolzano, seschool2016.inf.unibz.it

- September, 8-10 2015 PhD Summer school in Software Engineering **SESchool**, Free University of Bozen-Bolzano, seschool2015.inf.unibz.it

- May 24-27, 2016 **Arduino workshop for newbies**: from concept to project realization, workshop for undergraduate students, Free University of Bozen-Bolzano, http://www.inf.unibz.it/~russo/ArduinoWorkshop.html

Exhibitions
- April 1st, 2017 **Co-organizer** of the *ArduinoDay@unibz* https://www.unibz.it/en/news/122287-arduino-day-a-bolzano

- October 13-16, 2016 **Organizer** for the Faculty of Computer Science of the exhibition for the *Maker Fair 2016*: *La mano bionica*, Fiera di Roma, Roma

- September 18th 2016, **Organizer and participation** to the Lunga Notte della Ricerca - *LUNA 2016*, Bolzano with the exhibition *The Naval Battle: Progettare, Programmare, e Stampare… Per Poi Affondare! Battaglia Navale Con Le Stampanti 3d*, https://lunganottedellaricerca.it/it/programma

– September 26th 2015, **Organizer and participation** to the Lunga Notte della Ricerca - *LUNA 2015*, Bolzano with the exhibition *Letter Adventure,* Lunga Notte della Ricerca, https://lunganottedellaricerca.it/it/programma

– 2014, **Organizer and participation** to the Lunga Notte della Ricerca - *LUNA 2014*, Bolzano with the exhibition *Reducing Search Space: A Mobile Application for Lifeguards Alerting*,

Memberships	**Membership of academic or professional bodies**

- 2018 **Member of advisory board** of the European H2020 project Q-Rapids (www.q-rapids.eu) lead by Universidad Politécnica de Catalunya

- 2009 - 2013 Member of the **Teaching Commission** of *GRuppo di Informatica Nazionale* (**GRIN**)

- 2009 - 2014 Member of the **Steering Committee** of the *International Software Engineering REsearch NEtwork* (**ISERN**)

- 2008 - today Member of the *Consorzio Interuniversitario Nazionale per l'Informatica* (**CINI**)

- 2007 - today Member of the *International Software Engineering REsearch NEtwork* (**ISERN**)

- 2007 - 2009 Member of the **IEEE Standard Association 1648** Working Group on *Establishing and Managing Software Development Efforts Using Agile Methods*

- 2005 - today Member of the *Association for Computing Machinery* (**ACM**)

- 2005 - today Member of *GRuppo di Informatica Nazionale* (**GRIN**)

- 2005 - today *Associazione Italiana per l'Informatica e il Calcolo Automatico* (**AICA**)

- 2005 - 2014 Member of the ***IEEE Computer Society***

Membership of Editorial Boards

2016

Member of the **editorial committee** of the Open Access Journal of Internet Services and Applications (*JISA*), Thematic Series on Free and Open Source Software Development,

http://igorsteinmacher.github.io/cfp-jisa-foss/

2014 - 2016

Review Board Member of the *Empirical Software Engineering Journal* (ISSN:1382-3256)

2010

Associated editor di *ECIS 2010* - 18th European Conference on Information Systems, Pretoria, South Africa, June 7-9, 2010, SCOPUS: 2-s2.0-84869409240

2010 - 2011

Member of the **Steering Committee** of the International Symposium of Empirical Software Engineering and Measurement (*ESEM*)

2010-2016

Member of the **editorial committee** of *IJOSSP* - International Journal of Open Source Software and Processes, IGI global, ISSN:1942-3926

2009

Associated editor di *ECIS 2009* - 17th European Conference on Information Systems, Verona, Italy, June 8-10, 2009, SCOPUS: 2-s2.0-84869756247

2008

Associated editor di *ECIS 2008* - 16th European Conference on Information Systems, Open Source and Innovation Track, Galway, Ireland, June 9-11, 2008, SCOPUS:2-s2.0-84869471825

Membership of scientific committees of international conferences in the last five years

2019

ICSE International Conference on Software Engineering - Software Engineering in Practice Track

2018

ICSME 34th International Conference on Software Maintenance and Evolution - NIER (New Ideas and Emerging Results) Track

ICSE International Conference on Software Engineering - Software Engineering in Practice Track

MSR@ICSE International Conference on Mining Software Repositories

ICSSP@ICSE International Conference on Software and System Processes

ESEC/FSE - Artefact Evaluation European Software Engineering Conference and the ACM SIGSOFT Symposium on the Foundations of Software Engineering

SEAA EUROMICRO conference series on Software Engineering and Advanced Applications

OSS International Conference on Open Source Systems, IFIP Working Group 2.13 Working Conference

WSESE International Workshop on Methodological Issues with Empirical Studies involving Human Subjects

SANER IEEE International Conference on Software Analysis, Evolution and Reengineering

Software Quality Days (SWQD) Conference

2017

ICSE International Conference on Software Engineering - Software Engineering in Practice Track

ICSE International Conference on Software Engineering - Software Engineering in Society (SEIS) Track

ICSME 2017 33rd International Conference on Software Maintenance and Evolution - Artifacts Track

ESEM - ACM / IEEE International Symposium on Empirical Software

Engineering and Measurement

ESEC/FSE 11th Joint Meeting of the European Software Engineering Conference and the ACM SIGSOFT Symposium on the Foundations of Software Engineering - Artefact Evaluation track

MSR@ICSE International Conference on Mining Software Repositories

ICSSP@ICSE International Conference on Software and System Processes

SEAA EUROMICRO conference series on Software Engineering and Advanced Applications

SWQD Software Quality Days, Wien, Austria

POTENTIAL 2017 1st Workshop on Technology Transfer in Software Engineering and Formal Methods

RCIS - IEEE International Conference on Research Challenges in Information Science

SER&IP@ICSE - International Workshop on Software Engineering Research and Industrial Practices at ICSE

OSS International Conference on Open Source Systems, IFIP Working Group 2.13 Working Conference

2016

ESEC/FSE - Artefact Evaluation European Software Engineering Conference and the ACM SIGSOFT Symposium on the Foundations of Software Engineering

MSR@ICSE International Conference on Mining Software Repositories

ICSSP@ICSE International Conference on Software and System Processes

SER&IP@ICSE - International Workshop on Software Engineering Research and Industrial Practices at ICSE

SEAA EUROMICRO conference series on Software Engineering and Advanced Applications

SWQD Software Quality Days, Wien, Austria

RAISE@ICSE International Workshop on Software Engineering Research and Industrial Practices

PROFES - International Conference on Product Focused Software Development and Process Improvement

RCIS - IEEE International Conference on Research Challenges in Information Science

ICSME - artefact, IEEE International Conference on Software Maintenance and Evolution

ESEM - ACM / IEEE International Symposium on Empirical Software Engineering and Measurement

2015

ICSSP@ICSE International Conference on Software and System Processes

SEAA EUROMICRO conference series on Software Engineering and Advanced Applications

SWQD Software Quality Days, Wien, Austria

RCIS - IEEE International Conference on Research Challenges in Information Science

International Conference on System Sciences (HICSS), Hawaii

SIMPDA - the 5th International Symposium on Data-driven Process Discovery and Analysis, 9-11 December, 2015, Wien, Austria

SER&IP@ICSE - International Workshop on Software Engineering Research and Industrial Practices at ICSE

ESEM - ACM / IEEE International Symposium on Empirical Software Engineering and Measurement

2014

SEAA EUROMICRO conference series on Software Engineering and Advanced Applications

SWQD Software Quality Days, Wien, Austria

PROFES - International Conference on Product Focused Software Development and Process Improvement

SOFSEM International Conference on Current Trends in Theory and Practice of Computer Science

ESEM - Short Paper and poster ACM / IEEE International Symposium on Empirical Software Engineering and Measurement

ASDENCA - International Workshop on Advances in Services DEsign based on the Notion of CApabiliy

dg.o - Annual International Conference on Digital Government Research

2013

ESEM - Short papers and posters, ACM / IEEE International Symposium on Empirical Software Engineering and Measurement

ICSSP@ICSE International Conference on Software and System Processes

SEAA EUROMICRO conference series on Software Engineering and Advanced Applications

OSS International Conference on Open Source Systems, IFIP Working Group 2.13 Working Conference

SWQD Software Quality Days, Wien, Austria

PROFES - International Conference on Product Focused Software Development and Process Improvement

dg.o - Annual International Conference on Digital Government Research

ECIS - European Conference on Information Systems

LESS - Lean Enterprise Software and Systems Conference, Galway, Ireland

Reviewer for the following journals in the last five years

2017 ACM Computing Surveys SNIP: 6.438

2018 - 2017 Transactions on Software Engineering and Methodology (TOSEM) SNIP: 2.237

2018, 2014 – 2012, 2010 - 2009 Transactions on Software Engineering (TSE), SNIP: 4.423

2018 - 2010 Journal System and Software (JSS), SNIP: 2.415

2019 - 2018, 2015 - 2014, 2012 - 2011, Empirical Software Engineering (EMSE), SNIP: 2.304

2014 Applied Soft Computing Journal, SNIP: 2.143

2014 - 2007 Requirements Engineering, SNIP: 2.580

2014 - 2011 (2014 Reviewer of the year) Journal of Strategic Information Systems, SNIP: 1.693

2013 Information Processing Letters, SNIP: 1.265

2018-2013 Information and Software Technology, SNIP: 3.163

Research and scholarships

Summary of significant research achievements

Type	
Total research grants as principal investigator	748,950.00 Euro
Total research grant as scientific investigator	4,312,916.00 Euro
Total research contracts as principal investigator	134,800 Euro
H index (Google Scholar on March 26th 2019)	20
Number of Publications	Authored Books 2
	Edited Books 5
	Book Chapters 5
	International Journals 30
	National Journal 1
	International Conferences 48
Citations (Google Scholar on July 30th 2018)	1192
PhD supervisions	8 (6 complete)

Summary of current research and scholarship

Since 2005, when I started my appointment as associate professor in computer science at the Free University of Bozen-Bolzano, and nine years later as *director of the newly funded research center* in Software and Systems Engineering (SwSE) of the Faculty of Computer Science, I have been *promoting the culture of empirical and applied research in software engineering*, and, more in general, in computer science. In particular, my current research focuses on

> *building theories and testing the feasibility of solutions for software systems using empirical evidence and data gathered from different contexts and repositories.*

Such research is exemplified by the three papers on Transactions that I recently published:

(*) Ponzanelli, L., Bavota, G., Mocci, A., Di Penta, M., Oliveto, R., Russo, B., Haiduc, S., Lanza, M. (2017) Automatic Identification and Classification of Software Development Video Tutorial Fragments ***Transaction on Software Engineering*** *(early access)* DOI: 10.1109/TSE.2017.2779479

(*) Scalabrino, S., Bavota, G., Russo, B., Oliveto, R., Di Penta, M. (2017) Listening to the Crowd for the Release Planning of Mobile Apps ***Transaction of Software Engineering*** *(early access)* DOI:

(*) Candela, I., Bavota, G., Russo, B., Oliveto, R. (2016) Using Cohesion and Coupling for Software Remodularization: Is It Enough?: *ACM Transaction on Software Engineering. Methodology*. Vol. 25, No. 3, pp. 1-24, ISSN: 1049-331X, DOI: doi.org/10.1145/2928268

This paper got the Journal First @ICSE 2017 award http://icse2017.gatech.edu/?q=all_contributions

And the research grant I was recently awarded as unit coordinator of the Free University of Bozen-Bolzano for the ongoing project:

> *Governing Adaptive and Unplanned Systems of Systems - GAUSS* project funded by the **2015 PRIN** Italian program (Progetti Di Ricerca Di Rilevante Interesse Nazionale)

http://www.lta.disco.unimib.it/GAUSS/index.html. **The project was selected among 4400 proposals with acceptance rate 6.4% and ranked 59 over 300 proposals accepted.** I am the only member of the Faculty of Computer Science that ever obtained it. This project gives me the chance to collaborate with the best Italian researchers in software engineering,

In my work, I also established several research collaborations with companies and organizations like the *Atacama Large Millimeter Array (ALMA) telescope observatory*. I was invited by the ALMA software engineers to Chile to give talk on my work

> Russo, B, Giancarlo Succi G., and Pedrycz W., (2015) Mining system logs to learn error predictors: a case study of a telemetry system. *Empirical Software Engineering Journal* Vol. 20. No4, pp. 879-927.

In 2018, the same article has been recently listed as **one of the ten papers providing a technique for anomaly detection of software systems** (in Niyaz H. and Priscilla M. (2018) A Survey on Various Kinds of Anomalies Detection Techniques in the Mobile Ad hoc Network Environment, *International Journal of Scientific Research in Computer Science, Engineering and Information Technology* Vol. 3 No. 3, pp. 2456-3307).

I recently started a collaboration with Andrè van Hoorn (University of Stuttgart) and Alberto Avritzer (Sonatype) on *performance testing of microservices* publishing the paper to a conference

> A Quantitative Approach for the Assessment of Microservice Architecture Deployment Alternatives by Automated Performance Testing, HA Avritzer A., Ferme V., Janes A., Russo B., Schulz H., 12ve European Conference on Software Architecture, September 24-28, 2018

Such new research direction has been recently extended with a collaboration with Prof. Sangiovanni Vincentelli of the **University of Berkley**, US on *Cyber-physical systems and architectures based on application containerization,* a collaboration with the local company

Systems srl (research contract) and a new project proposal submitted to the FESR in collaboration with **Würth Phoenix srl** (FESR competitive call 2018).

Significant achievements in research and scholarship during the previous five years

The first acknowledgement of my research activity came in 2007 with the invitation to the *International Software Engineering Research Network* (ISERN), the most prestigious international research network in software engineering, which in 2017 celebrates its 25 years. The admission process took me three years (2007-2010), but then I **chaired two annual meetings** (2013-2014), was **member of the steering committee** (2009 - 2014), and **now I am an active senior member**. Every year, the network organizes a two-days workshop on the most relevant and challenging issues in software engineering.

In 2014, I have **established** at the Faculty of Computer Science the **research group *Software and Systems Engineering*** (SwSE) that I coordinated until December 2017. Since then, the group is growing and now it counts one full professor, two associate professors, one senior RTD, two RTDs, one AR and three PhD students.

Given my experience and interest in data mining of software systems, in 2016, I was invited to write a chapter in the book Menzies, Zimmermann, Williams, (eds.) "Perspectives on Data Science for Software Engineering" Morgan Kaufmann titled *The need for data analysis patterns (in software engineering)*.

In 2017, I was also invited to two **Shonan meetings**:

− *Towards Engineering Free/Libre Open Source Software* (FLOSS) *Ecosystems for Impact and Sustainability* of the National Institute of Informatics (NII), Japan organized by B. Fitzgerald, University of Limerick, Ireland, A. Mockus, University of Tennessee, USA, M. Zhou, Peking University, China, Village Center (SVC), in June 26 - 29, 2017

− *Data - Driven Search-Based Software Engineering* organized by Markus Wagner, University of Adelaide, Australia, Leandro Minku, University of Leicester, UK, Ahmed E. Hassan, Queen's University, Canada, John Clark, University of York, UK that will take place in December 11- 14, 2017.

In July 2019, I participated to the Dagstuhl Seminar *Values in Computing* organized by Christoph Becker (University of Toronto, CA), Gregor Engels (Universität Paderborn, DE), Andrew Feenberg (Simon Fraser University − Burnaby, CA), Maria Angela Ferrario (Lancaster University, GB), Geraldine Fitzpatrick (TU Wien, AT)

The participation to such prestigious meetings gave me the opportunity to collaborate with internationally renowned researchers and professionals in software engineering. As result of the first Shonan meeting, I co-authored one chapter of book "Towards Engineering Free/Libre Open Source Software (FLOSS) Ecosystems for Impact and

Sustainability" edited by the meeting's organizers (under submission).

In these five years, I published **12 papers** in the main track of conferences of category A++,A+ and A (GRIN classification) or Q1 in scimago ranking (i.e., ICSE, ICSME, ASE, ESEC/FSE, ESEM, MSR) and **four articles** in top journals (i.e., Transaction on Software Engineering, Transaction od Software Engineering and Methodology, and Journal of Systems and Software), Q1 in scimago ranking.

In the last five years I received more than **600,000 Euro** as principal investigator of projects awarded by competitive call or research contract.

Research grants and contracts

Principal investigator for research grants

Date granted	Funding Body	Title	Amount received (Euro)
Total Research grants obtained as Principal investigator in the last 10 years			**748,950**
01/10/2018 - 30/09/2021	Contract for Research Contribution (CRC) 2018, Free University of Bozen - Bolzano, Italy	SARDECH - Software Architecture Recommendation system built on DEsign Change History	90,000
05/02/2017 - 05/02/2020	PRIN2015, Progetti Di Ricerca Di Rilevante Interesse Nazionale – Bando 2015, **rate of acceptance 6,4 %**, contract no. KWREMX	GAUSS- Governing Adaptive and Unplanned Systems of Systems	56,335
01/11/2016 - 31/10/2019	Contract for Research Contribution (CRC) 2016, Free University of Bozen - Bolzano, Italy	DEBASS- DEtecting Behavioural Anomalies in the Operations of Large Software Systems	70,000
01/02/2015 - 31/01/2018	Contract for Research Contribution (CRC) 2014, Free University of Bozen - Bolzano, Italy. Interdisciplinary in collaboration with the Faculty of Economics	TCC_EU2020 - Trusted cloud computing for Europe 2020	50,000
01/09/2015 - 28/02/2018	Free University of Bozen-Bolzano	RPMA - Mining Users' Reviews to Support the Release Planning of Mobile Apps	9,800
01/09/2013- 31/08/2015	Contract for Research Contribution (CRC) 2012, Free University of Bozen - Bolzano, Italy	Optimization of the execution of self-adaptive, self-healing, and self-recovery software applications for energy saving	25,640
01/09/2013 - 28/09/2015	Contract for Research Contribution (CRC) 2012, Free University of Bozen - Bolzano, Italy	FOSSMAE - FOSS maturity predictor based on product and process metrics	15,000
15/10/2012 - 31/12/2015	Foundation of the Free University of Bozen-Bolzano	EMSE - European Masters Programme in Software Engineering	96,000
08/03/2014 -	PRIN 2012 Progetti Di	IDEAS - Integrated	72,000

08/03/2017	Ricerca Di Rilevante Interesse Nazionale – Bando 2012	Design and Evolution of Adaptive Systems	
01/10/2010 - 30/09/2013	Contract for Research Contribution (CRC) 2010-2011, Free University of Bozen - Bolzano, Italy	eGovS2020 - eGovernment Scenarios for 2020	27,513
2014-2017	Free University of Bozen-Bolzano, In collaboration with the Faculty of Art and Design	DramaLäb - makerspace	50,000
2014-2016	Free University of Bozen-Bolzano	Embedded Software QUAlity (ESQUA) (co-investigator)	6,662
2008-2011	Provincia di Bolzano, Italy	CMOSS - Capability and Maturity of Open Source Software	130,000
2007 – 2009	Contract for Research Contribution (CRC) 2007, Free University of Bozen - Bolzano, Italy	KBeG - A Knowledge Base in eGovernment	50,000

Scientific investigator for research grants

Date granted	Award Holder(s)	Funding Body	Title	Amount received (Euro)
Total Research grants - participation as Scientific investigator				**4,312,916**
2006	Rishab Aiyer Ghosh, UNU-MERIT	European Tender - Enterprise and Industry Directorate-General, Contract no. S12.43065	The analysis of the economic impact of OSS in the innovative capacity and structure of the ICT sector in Europe	25,000
2004- 2006	Brian Fitzgerald, University of Limerick,	FP6 Coordination Action no. 004337	CALIBRE - Coordination Action for Libre Engineering	1,500,000
2004 - 2006	Giancarlo Succi, Free University of Bozen-Bolzano	FP6-IST STREP, IST-1-002614	COSPA – Consortium for the introduction of the Open Source Software and the Open data standards in Public Administratio n	2,607,516

| 2002 - 2003 | Giancarlo Succi (Free University of Bozen-Bolzano) - | FP5 NoE, IST-2001-37482 | NAME - Network for Agile Methodologies experience | 180,400 |

Principal investigator for research contracts

Date granted	Funding Body	Title	Amount received (Euro)
Contract for research project (Ricerca Commissionata)			
Total research contract as Principal Investigator			**75,000.00**
15/07/2018-31/08/2018	IDM Südtirol - Alto Adige(IDM)	REUSE	1,000.00
01/09/2018-30/10/2022	Systems srl	Industry 4.0 for Smart* (I4S*)	60,000.00
17/06/2009-17/09/2009	Azienda Energetica SPA	eGovernment	3,000.00
29/09/2007-29/01/2008	Azienda Energetica SPA	Studio delle misure di allineamento IT/ business	5,000.00
21/09/2007 - 21/12/2007	SAD trasporto locale s.p.a.	Allineamento fra strategia e processi di business dell'azienda	6,000.00
Reserach cooperation contracts (Legge provinciale 4/1997 Ricerca e Sviluppo - Progetti di cooperazione - Capo IV)			
Total research cooperation contract as Principal Investigator			**59,800.00**
20/08/2012 - 20/12/2013	PCS srl	Realizzazione di un nuovo software gestionale per alberghi	34,800.00
2012	Angel Eye	Applicazione Mobile per Analisi di Movimenti di Corpi Umani in Acqua	25,000.00

Personal research grants and awards

– 2014 **Reviewer of the year** of Journal of Strategic Information Systems, SNIP: 1.693

– December 15th, 2010, **IEEE Lance Stafford Larson award** for the BSc thesis of Diego Marmsoler under my supervision

– 2000 – 2002 visiting researcher, European FP5 framework Marie Curie Grant - Research Training Network in Geometria Algebrica (EAGER), The University of Liverpool, UK 2001. Duration 6

months

- July 1st, 1999 – June 30th, 2001 Assegno di Ricerca (Post Doc fellowship) – University of Trento, Italy

- 1999 Winner of two CNR grants nr. 201.01.130 and nr. 203.01.71

- 1999 Winner of CNR-NATO grant nr. 215.31

- June 29th, 1997 – July, 13th, 1997, Post-Doc fellowship – University of Trento, Italy

- August 1st, 1997 – October 31st, 1997, Research Fellow Grant of Max-Plank Institut für Matematik, Bonn, Germany

- October 1st, 1996 – April 3rd, 1997, Senior grant of I.N.d.A.M "Istituto Nazionale di Alta Matematica F.Severi"

- April 4th, 1996 – September 30th, 1996, graduate grant of the University of Trento for a specialization course of the University of Liverpool

- 1991 graduate grant I.N.d.A.M. `Istituto Nazionale di Alta Matematica F.Severi'

- October 1st, 1991- September 30th, 1991, undergraduate-graduate grant of C.N.R. `Consiglio nazionale delle ricerche' - one year (exended after graduation)

Publications

Publications. DOI, Scopus and Google Scholar citation index, SNIP index of the journal, when available. (*) = especially significant. When my name is not italicized (i.e., main author), my contribution in articles with multiple authors is to be considered as equal.

Books – Authored (2 books)

[BA-1] (*) Fitzgerald, B., Kesan, J., Russo, B., Shaikh, M., Succi, G. (2011) *Adopting Open Source Software: A Practical Guide*, The MIT Press, Cambridge, Massachusetts, London, England ISBN:0262516357 9780262516358

https://mitpress.mit.edu/books/adopting-open-source-software

DOI: doi.org/10.7551/mitpress/9780262516358.001.0001

Google scholar cit. 21

[BA-2] Russo B., Scotto M., Sillitti A., Succi G. (2009) *Agile Technologies in Open Source Development*, IGI Global, p 388, ISBN: 1599046814 9781599046815

DOI: doi.org/10.4018/978-1-59904-681-5 Scopus cit.: 8, Google Scholar cit.: 21

Books – Edited (5 Proceedings as Proceeding co-chair)

[BE-1] Abrahamsson, P., Corral, L., Oivo, M., Russo, B. (2015) *Product-Focused Software Process Improvement - 16th International Conference, PROFES 2015*, Bolzano, Italy, December 2-4, 2015, Proceedings. Lecture Notes in Computer Science 9459, Springer 2015, ISBN 978-3-319-26843-9,

DOI: doi.org/10.1007/978-3-319-26844-6 SNIP: 0.552

Google Scholar cit.: 2

[BE-2] Ceravolo, P., Russo, B., Accorsi, R. (2015) *Data-Driven Process Discovery and Analysis - 4th International Symposium, SIMPDA 2014*, Milan, Italy, November 19-21, 2014, *Revised Selected Papers*. Lecture Notes in Business Information Processing 237, Springer 2015, *Selected Papers*, ISBN 978-3-319-27242-9

DOI: doi.org/10.1007/978-3-319-27243-6 SNIP: 0.436

[BE-3] Russo, B., Ceravolo, P., Accorsi, R. (Eds.) (2014) *Data-driven Process Discovery and Analysis: Proceedings of the 4th International Symposium on Data-driven Process Discovery and Analysis (SIMPDA 2014)*, Milan, Italy, November 19-21, CEUR, ISSN: 16130073

SNIP: 0.246

[BE-4]   Hissam, S. A., Russo, B., de Mendonça Neto, M. M., Kon, F. (Eds.) (2011) *Open Source Systems: Grounding Research - Proceedings of 7th IFIP WG 2.13 International Conference, OSS 2011*, Salvador, Brazil, October 6-7, 2011, ISBN: 978-3-642-24417-9,

DOI: doi.org/10.1007/978-3-642-24418-6

Google scholar cit.: 1

[BE-5]   Russo, B., Damiani, E., Hissam, S. A., Lundell, B., Succi, G. (Eds.) (2008) *Open Source Development, Communities and Quality, Proceedings of the IFIP 20th World Computer Congress, Working Group 2.3 on Open Source Software, OSS 2008*, September 7-10, 2008, Milano, Italy Springer, 2008,

DOI: doi.org/10.1007/978-0-387-09684-1

Google scholar cit.: 6

Book Chapters (5 book chapters)

[BC-1]   Felderer, M., Russo, B., Auer, Florian (2019) On Testing of Data-Intensive Software Systems in Biffl S., Eckhart M., Lüder A., Weippl E. *Security and Quality Improvement for Engineering Flexible Software-Intensive Systems* Springer Verlag*,*

arXiv:1903.09413

[BC-2]   Russo, B., Tragust J., Wang X., (2019) Mining Data to Profile Communication in FLOSS Communities In *Towards Engineering Free/Libre Open Source Software (FLOSS) Ecosystems for Impact and Sustainability, Springer Verlag, DOI: 10.1007/978-981-13-7099-1_2*

[BC-3]   (*) Russo B., (2016) The need for data analysis patterns (in software engineering) in Tim Menzies, Laurie Williams, Thomas Zimmermann (eds) *Perspectives on Data Science for Software Engineering*, 1st Edition, Morgan Kaufmann, ISBN: 9780128042618, pp. 19-23

http://www.sciencedirect.com/science/book/9780128042069

[BC-4]   *Russo B.,* Succi G., (2009) A Cost Model of Open Source Adoption to Support Transformational Government, in Weerakkody V. and Janssen M. (Eds.) *Handbook of Research on ICT-enabled Transformational Government: A Global Perspective*, IGI Global, pp. 396-418,

DOI: doi.org/10.4018/978-1-60566-390-6.ch021

Google scholar cit.: 9

[BC-5]   Rossi B., *Russo B.*, Succi G., (2007) Evaluation of a migration to Open Source Software, in *Handbook of Research on Open Source Software: Technological, Economic and Social Perspectives*, chap. 98, IGI Global pp. 1657-1674

DOI: 10.4018/978-1-59140-999-1.ch024, Scopus cit: 3

Google Scholar cit.: 7

Papers in Refereed, International, Academic Journals (30 articles)

[IJ-1]   Pettinato, M., Gil, J. P., Galeas, P., Russo, B. (2019) Log mining to re-construct system behavior: an exploratory study on a large telescope system *Journal of Information and Software Technology* to appear

DOI: https://doi.org/10.1016/j.infsof.2019.06.011

[IJ-2]   (*) Scalabrino, S., Bavota, G., Russo, B., Oliveto, R., Di Penta, M. (2019) Listening to the Crowd for the Release Planning of Mobile Apps *Transaction of Software Engineering* Vol. 45, No. 1, pp. 68-86

DOI: doi.org/10.1109/TSE.2017.2759112

Google scholar cit: 3

[IJ-3]   Russo, B., Valle, L., Bonzagni, G., Locatello, D., Pancaldi, M., Tosi, D., (2018) Cloud Computing and the New EU General Data Protection Regulation. **IEEE Cloud Computing** Vol. 5 No.6, pp. 58-68

[IJ-4]   (*) Ponzanelli, L., Bavota, G., Mocci, A., Di Penta, M., Oliveto, R., Russo, B., Haiduc, S., Lanza, M. (2017) Automatic Identification and Classification of Software Development Video Tutorial Fragments *Transaction on Software Engineering* Vol: 45 , Issue: 5, pp. 464 – 488,

DOI: 10.1109/TSE.2017.2779479

Google scholar cit: 1

[IJ-5]   (*) Astromskis, S., Bavota, G., Janes, A., Russo, B., Di Penta, M. (2017) Patterns of developers behaviour: A 1000-hour industrial study: *Journal of Systems and Software*, (JSS) Vol. 132, pp. 85-97,

DOI: doi.org/10.1016/j.jss.2017.06.072 Scopus cit.: 0, SNIP: 2.039

[IJ-6]   (*) Candela, I., Bavota, G., Russo, B., Oliveto, R. (2016)

Using Cohesion and Coupling for Software Remodularization: Is It Enough?: *ACM **Transaction on Software Engineering. Methodology***. Vol. 25, No. 3, pp. 1-24, ISSN: 1049-331X

DOI: doi.org/10.1145/2928268

Scopus cit: 1, Google scholar cit: 14, SNIP: 2.237.

This paper got the Journal First @ICSE 2017 award http://icse2017.gatech.edu/?q=all_contributions

[IJ-7]   (*) *Russo, B.,* Succi, G., Pedrycz, W. (2015) Mining system logs to learn error predictors: a case study of a telemetry system: ***Empirical Software Engineering Journal*** (ESEM), Vol. 20, No. 4, pp. 879-927 ISSN: 1382-3256,

DOI: dx.doi.org/10.1007/s10664-014-9303-2

Scopus cit.: 3, Google Scholar cit.: 7, SNIP: 2.287

This paper was cited as one of the ten approaches for log mining for anomaly detection in Niyaz H. and Priscilla M. (2018) A Survey on Various Kinds of Anomalies Detection Techniques in the Mobile Ad hoc Network Environment, *International Journal of Scientific Research in Computer Science, Engineering and Information Technology* Vol. 3 No. 3, pp. 2456-3307.

[IJ-8]   Pedrycz, W., Russo, B., Succi, G., (2012) Knowledge transfer in system modeling and its realization through an optimal allocation of information granularity: *Applied. Software Computing.* Vol. 12, No. 8 pp. 1985-1995, ISSN: 1568-4946,

DOI: doi.org/10.1016/j.asoc.2012.02.004

Scopus cit.: 14, Google scholar: 25, SNIP: 2.037

[IJ-9]   Rossi, B., Russo, B., Succi, G. (2012) Adoption of Free/Libre open Source Software in Public Organizations: Factors of impact: *Information Technology & People*, Vol. 25, No. 2, pp. 156-187, ISSN: 0959-3845,

DOI: doi.org/10.1108/09593841211232677

Scopus cit: 15, Google scholar cit: 32, SNIP: 2.287

[IJ-10]   Rossi, B., *Russo, B.,* Succi, G. (2011) Path Dependent Stochastic Models to Detect Planned and Actual Technology Use: a case study of OpenOffice, *Journal of Information and Software Technology,* vol. 53, No.11, pp. 1209-1226, ISSN: 0950-5849

DOI: doi.org/10.1016/j.infsof.2011.05.002

Scopus cit.: 1, Google scholar cit.: 1 SNIP: 2.287

[IJ-11]   (*) Pedrycz, W., *Russo, B.,* Succi, G., (2011) A model of Job Satisfaction for Collaborative Development processes, *Journal of Systems and Software* (JSS), Vol. 84, No. 5, pp.739-752, ISSN: 0164-1212

DOI: doi.org/10.1016/j.jss.2010.12.018 Scopus cit.: 7, Google scholar cit: 20, SNIP: 2.039

[IJ-12]   Lutteri, E., Russo, B., Succi, G. (2011) Report of the 4th international symposium on empirical software engineering and measurement ESEM 2010, *ACM SIGSOFT Software Engineering Notes*, Vol. 36, No. 2, pp. 28-34,

DOI: doi.org/10.1145/1943371.1943393

[IJ-13]   *Russo, B.,* Succi, G. (2009) A Cost Model of Open Source Software Adoption, *International Journal of Open Source Software and Processes*, Vol. 1, No. 3, pp. 60-82

DOI: doi.org/10.4018/jossp.2009070105 Scopus cit.: 6, Google Scholar cit.: 10

[IJ-14]   (*) Marchesi M., Succi G., Russo B., (2007) A model of the dynamics of the market of COTS software, in the absence of new entrants, *Information Systems Frontiers*, Vol. 9 (2-3), pp. 257-265

DOI: doi.org/10.1007/s10796-007-9025-8

Scopus cit.: 3, Google Scholar cit.: 4, SNIP: 1.230

[IJ-15]   Moser R., Russo B., Succi G., (2007) Empirical analysis on the correlation between GCC compiler warnings and revision numbers of source files in 5 industrial software projects, *Empirical Software Engineering Journal*, Vol. 12, No. 3, pp. 295-310

DOI: doi.org/10.1007/s10664-006-9029-x

Google Scholar cit.: 2, SNIP: 2.287

[IJ-16]   Ronchetti M., Succi G., Pedrycz W., Russo B. (2006) Early estimation of software size in object-oriented environments a case study in a CMM level 3 software firm. *Information Science Journal,* Vol. 176, No. 5, pp. 475-489

Google scholar cit.: 24

[IJ-17]   (*) Janes A., Scotto M., Pedrycz W., Russo B., Stefanovic M.,

Succi G., (2006) Identification of defect-prone classes in telecommunication software systems using design metrics. *Information Science Journal*, Vol. 176 No. 24., pp. 3711-3734

Google scholar cit.: 82

[IJ-18]   (*) Succi G., Pedrycz W., Djokic S., Zuliani P., Russo B., (2005) An Empirical Exploration of the Distributions of the Chidamber and Kemerer Object-Oriented Metrics Suite. *Empirical Software Engineering Journal* Vol. 10, No.1, pp. 81-104

Google scholar cit.: 64

[IJ-19]   Giancarlo Succi, Witold Pedrycz, Milorad Stefanovic, Barbara Russo, (2003) An Investigation on the Occurrence of Service Requests in Commercial Software Applications. *Empirical Software Engineering Journal,* Vol. 8, No. 2, pp. 197-215

Google scholar cit.: 13

[IJ-20]   Ballico, E.; Russo, B. Stable vector bundles with decomposable subbundles. (2002) *Rev. Roumaine Math. Pures Appl*. Vol. 47 No. 4, pp. 403–413

[IJ-21]   Ballico, E.; Russo, Maps between stable vector bundles on a smooth curve. (2002) *Bull. Polish Acad. Sci. Math*. Vol. 50, No. 4, pp. 433–446

Google scholar cit.: 1

[IJ-22]   Ballico, E.; Russo, B. Families of maximal subbundles of stable vector bundles on curves. (2001) *Rocky Mountain J. Math*. Vol. 31, No. 4, pp. 1141–1150

Google scholar cit.: 1

[IJ-23]   (*) Ballico, E.; Russo,B. Exact sequences of semistable vector bundles on algebraic curves. (2000) *Bull. London Math. Soc*. Vol. 32 No. 5, pp. 537–546

[IJ-24]   (*) Russo, B.; Teixidor i Bigas, M. On a conjecture of Lange. (1999) *J. Algebraic Geom*. Vol. 8 No. 3, pp. 483–496

Google scholar cit.: 61

[IJ-25]   (*) Ballico, E.; Brambila, L.; Russo, B. Exact sequence of stable vector bundles on projective curves. (1998), *Math. Nachr*. Vol. 194, pp. 5–11

Google scholar cit.: 11

[IJ-26]   Ballico, E.; Giovanetti, F.; Russo, B. On the projective

geometry of strange plane curves invariant by a finite group. (1998) *Rend. Circ. Mat. Palermo* Vol. 2 Suppl. No. 51 pp. 107–114

[IJ-27] Ballico, E.; Russo, B. On the rationality of the moduli schemes of vector bundles on curves. (1997), *Rend. Sem. Mat. Univ. Padova* Vol. 97, pp. 23–27

[IJ-28] Ballico, E.; Giovanetti, F.; Russo, B. Examples of differential geometric behaviour of projective varieties in positive characteristic. *Rend. Mat. Appl.* (7) 15 (1995), no. 1, 125–132

[IJ-29] Ballico, E.; Giovanetti, F.; Russo, B. On logarithmic bundles of Pn in positive characteristic. Projective geometry with applications, 75–79, *Lecture Notes in Pure and Appl. Math.*, 166, Dekker, New York, 1994

Google scholar cit.: 2

[IJ-30] (*) Ballico, Edoardo; Russo, Barbara (1992) On the general osculating flag to a projective curve in characteristic p. *Communication in Algebra* Vol. 20, No. 12, pp. 3729–3740

Google scholar cit.: 5

Articles in National Journal

[NJ-1] Valle L, Russo B, Bonzagni G, Locatello DM, (2018) Struttura dei contratti e trattamento dei dati personali nei servizi di cloud computing alla luce del nuovo Reg. 2016/679 UE, **Contratto e Impresa Europa**, ISSN: 1127-2872

Articles in Refereed, International Conferences (48 articles)

[IC-1] Avritzer A., Menasché, D., Rufino, V., Janes A., Russo B., Ferme V., Schulz H., van Hoorn A., (2019) PPTAM: Production and Performance Testing Based Application Monitoring, ICPE – demo, https://icpe2019.spec.org/conference-program.html

[IC-2] (*) Mairegger, M., Janes, A., Russo, B. (2018) *code_call_lens: Raising the Developer Awareness of Critical Code 33rd International Conference on Automated Software Engineering (*ASE 2018), Montpellier, France, September 3-7, 2018, pp. 876-879, presented on September 6th 2018 http://www.ase2018.com/?p=program ,

DOI: 10.1145/3238147.3240488

[IC-3] Avritzer A., Ferme V., Janes A., Russo B., Schulz H., van Hoorn A., (2018) A *Quantitative Approach for the Assessment of Microservice Architecture Deployment Alternatives by*

Automated Performance Testing, 12ve European Conference on Software Architecture, ECSA2018, September 24-28, 2018, Madrid, Spain, pp. 159-174, presented on September 26th, 2018,

DOI: 10.1007/978-3-030-00761-4_11

[IC-4]   (*) Russo, B. (2018) *Profiling call changes via motif mining*. Mining Software Repositories, MSR2018, Proceedings of, , the 15th International Conference on Mining Software Repositories, pp. 203-214 presented on May 28th 2018, https://2018.msrconf.org/info/msr-program,

DOI: 10.1145/3196398.3196426

[IC-5]   (*) Falessi, D., Russo, B., Mullen, K. (2017) *What if I had no smells?* the 11th International Symposium on Software Engineering and Measurement, ESEM2017, November 9-10 2017, Toronto, CA, in Proceedings of, pp. 78-84

DOI: 10.1109/ESEM.2017.14

Google Scholar cit: 3

[IC-6]   (*) Gadler, D., Mairegger, M., Janes, A., Russo, B. (2017) *Mining Logs to Model the Use of a System* the 11th International Symposium on Software Engineering and Measurement, ESEM2017, November 9-10 2017, Toronto, CA, pp. 334-343.

DOI: 10.1109/ESEM.2017.47

[IC-7]   (*) Villarroel L, Bavota G, Russo B, Oliveto R, Di Penta M (2016). *Release planning of mobile apps based on user reviews*. In: Proceedings of the 38th International Conference on Software Engineering, ICSE2016, Austin,TX, US, May 14-20, pp. 14-24,

DOI: doi.org/10.1145/2884781.2884818,

Google Scholar cit: 89

[IC-8]   (*) Ponzanelli, L., Bavota, G., A. Mocci, M. Di Penta, R. Oliveto, M. A. Hasan, Russo, B., S. Haiduc, M. Lanza (2016) *Too long; didn't watch!: extracting relevant fragments from software development video tutorials*. In: Proceedings of the 38th International Conference on Software Engineering, ICSE2016, Austin, TX, May 14-22, 2016, pp. 261-272

DOI: doi.org/10.1145/2884781.2884824

Google Scholar cit.: 30 SNIP: 1.942

[IC-9]   Ponzanelli, L., Bavota, G., Mocci, A., Di Penta, M., Oliveto, R., Russo, B., Haiduc, S., Lanza, M. (2016) *CodeTube: extracting relevant fragments from software development video tutorials*. In: Proceedings of the 38th International Conference on Software Engineering, ICSE2016, Austin, TX, May 14-22, 2016 (Companion Volume) 2016, pp. 645-648

DOI: doi.org/10.1145/2889160.2889172,

Google Scholar cit.: 15, SNIP: 1.942

[IC-10]   (*) Bavota, G., Russo, B., (2016) *A large-scale empirical study on self-admitted technical debt*. In: Proceedings of the 13th International Conference on Mining Software Repositories MSR 2016, May 14–15, 2016. Austin, Texas, pp. 315-326

DOI: doi.org/10.1145/2901739.2901742

Google Scholar cit.: 26

[IC-11]   (*) Bavota, G., Russo, B. (2015) *Four Eyes are Better than Two: on the Impact of Code Reviews on Software Quality*. In: Proceedings of the 31st International Conference on Software Maintenance and Evolution, ICSME 2015, Bremen, Germany, 2015, pp. 81-90

DOI: doi.org/10.1109/ICSM.2015.7332454

Google Scholar cit.: 22

[IC-12]   (*) Moreno, L., Bavota, G. Haiduc, S., Di Penta, M., Oliveto, R., Russo, B., Marcus, A., (2015) *Query-based Configuration of Text Retrieval Solutions for Software Engineering Tasks*. In: Proceedings of the 10th Joint Meeting of the European Software Engineering Conference and the 22nd ACM SIGSOFT Symposium on the Foundations of Software Engineering, ESEC/FSE 2015, Bergamo, Italy, 2015, pp. 567-578

DOI: doi.org/10.1145/2786805.2786859,

Google Scholar cit.: 22

[IC-13]   Rossi, B., Russo, B. (2014) *Evolution of design patterns: a replication study*. In: Proceedings of the 8th ACM/IEEE International Symposium on Empirical Software Engineering and Measurement, ESEM 2014; Torino; Italy; September 18-19 2014, ESEM2014, Vol. 38, pp. 1-4

DOI: doi.org/10.1145/2652524.2652563,

Scopus cit.: 1, Google Scholar cit.: 2

[IC-14] Russo, B. Steff, M. (2014) *What can changes tell about software processes?*. In: Proceedings of the 5th International Workshop on Emerging Trends in Software Metrics, WETSoM 2014, pp. 1-7

DOI: doi.org/10.1145/2593868.2593869,

Scopus cit.: 1, Google Scholar cit.: 1

[IC-15] Russo, B. (2014) *A proposed method to evaluate and compare fault predictions across studies*. In: Proceedings of the 10th International Conference on Predictive Models in Software Engineering, PROMISE 2014, Turin; Italy; September 17, 2014, pp. 2-11

DOI: doi.org/10.1145/2639490.2639504,

Scopus cit.: 1, Google Scholar cit.: 1, SNIP: 0.271

[IC-16] Steff, M., Russo, B., (2013) *Commit Graphs,* In: Proceedings of the 1st International Workshop on Data Analysis Patterns in Software Engineering, DAPSE, May 21, 2013, San Francisco, CA, USA co-located with ICSE 2013, pp. 4-5

DOI: doi.org/10.1109/DAPSE.2013.6603798,

Scopus cit.: 1, Google Scholar cit.: 1

[IC-17] Russo, B., (2013) *Parametric Classification over Multiple Samples*. In: Proceedings of the 1st International Workshop on Data Analysis Patterns in Software Engineering (DAPSE), May 21, 2013, San Francisco, CA, USA co-located with ICSE 2013, pp. 23-25

DOI: doi.org/10.1109/DAPSE.2013.6603805,

Scopus cit.: 0, Google Scholar cit.: 1

[IC-18] Steff, M., Russo, B., Ruhe G. (2012) *Evolution of features and their dependencies - an explorative study in OSS*. In: Proceedings of the 6th ACM-IEEE International Symposium on Empirical Software Engineering and Measurement, ESEM 2012; Lund; Sweden; 19-20 September, 2012, ESEM 2012, pp. 111-114

DOI: doi.org/10.1145/2372251.2372270,

Scopus cit.: 2, Google Scholar cit.: 2

[IC-19] (*) Steff, M., Russo, B., (2012) *Characterizing the roles of classes and their fault-proneness through change metrics*.

Proceedings of the 6th ACM-IEEE International Symposium on Empirical Software Engineering and Measurement, ESEM 2012; Lund; Sweden; 19-20 September, 2012, ESEM 2012, pp. 59-68

DOI: doi.org/ 0.1145/2372251.2372261,

Google Scholar cit.: 2,

[IC-20] (*) Steff M., Russo B., (2012) *Co-evolution of Logical Couplings and Commits for Defect Estimation*. Proceedings of the 9th Working Conference on Mining Software Repositories, MSR 2012, June 2–3. Zurich, Switzerland, pp. 213-216

DOI: doi.org/10.1109/MSR.2012.6224283,

Scopus cit.: 7, Google Scholar cit.: 7

[IC-21] Fitzgerald, B., Kesan, J. P. , Russo, B., Shaikh, M., Succi G. (2012) *Lessons Learned from the Adoption of Open Source Software*, 2012, The European Financial Review, http://www.europeanfinancialreview.com/?p=1832

Google scholar: 3

[IC-22] Mulazzani F., Rossi B., Russo B., Steff M., (2011). *Building Knowledge in Open Source Software Research in Six Years of Conferences*. In: Open Source Systems: Grounding Research, Salvador, Brazil, October 6-7, p. 123-141

DOI: doi.org/10.1007/978-3-642-24418-6_9,

Scopus cit.: 4, Google Scholar cit.: 3,

[IC-23] (*) Steff M., Russo B., (2011) *Measuring Architectural Change for Defect Estimation and Localization*. In: Proceedings of the ACM / IEEE 5th International Symposium on Empirical Software Engineering and Measurement, Banff, Canada, ESEM2011, 19-23 September 2011, pp. 225-234

DOI: doi.org/10.1109/ESEM.2011.31,

Scopus cit.: 3, Google Scholar cit.: 5,

[IC-24] Lutteri, E., Russo, B., (2011) *Characterization of Consultant Activities in ERP Projects. A case study*. In: Proceedings of the 13th International Conference on Enterprise information Systems, ICEIS 2011, 8-11 June 2011, Beijin, China, pp. 293-300

DOI: doi.org/10.5220/0003508902930300, Scopus cit.: 0

[IC-25] (*) Ceccon, C., Panzacchi, P., Scandellari, F., Prandi, L.,

Ventura, M., Russo, B. (2011) *Spatial and temporal effects of soil temperature and moisture and the relation to fine root density on root and soil respiration in a mature apple orchard*, Plant and soil Vol.342 No. (1-2), pp. 195-206

DOI: doi.org/doi.org/10.1007/s11104-010-0684-8,

Scopus cit.: 31, Google scholar cit: 43, SNIP: 1.442

[IC-26] Rossi, B, Russo, B., Succi, G., (2010) *Download Patterns and Releases in Open Source Software Projects: A Perfect Symbiosis?*. In: Proceedings of the 6th International Conference of Open Source Systems, OSS 2010, 30 May - 2 June, Notre Dame, IN, USA, pp. 252-267

DOI: doi.org/10.1007/978-3-642-13244-5_20,

Scopus cit.: 3, Google Scholar cit.: 5, SNIP: 0.288

[IC-27] Rossi, B, Russo, B., Succi, G., (2010) *Modelling Failures Occurrences of Open Source Software with Reliability Growth*. In: Proceedings of the 6th International Conference of Open Source Systems, OSS 2010, 30 May - 2 June, Notre Dame, IN, USA, pp. 268-280

DOI: doi.org/10.1007/978-3-642-13244-5_21,

Scopus cit.: 8, Google Scholar cit.: 11, SNIP: 0.288

[IC-28] Rossi, B., Russo, B. & Succi, G. (2010) *The Mass Interest in e-Government*, Transforming Government Workshop, tGOV10, March 18-19, 2010, Brunel University, London, UK, ISBN-13: 978-1902316796

[IC-29] Stol, K-J., Ali Babar, M., Russo, B., Fitzgerald, B. (2009) *The use of empirical methods in open source software research: Facts, trends and future directions*. In: Proceedings of the 2009 ICSE Workshop on Emerging Trends in Free/Libre/Open Source Software Research and Development, pp. 19-24

DOI: doi.org/ 10.1109/FLOSS.2009.5071355,

Scopus cit.: 15, Google Scholar cit. 32

[IC-30] Mulazzani, F., Russo, B., Succi, G., (2009) *ERP Systems Development: Enhancing Organization's Strategic Control through Monitoring Agents*. In: Proceedings of the 8th IEEE/ACIS International Conference on Computer and Information Science, ICIS 2009, pp. 535-542,

DOI:doi.org/ 10.1109/ICIS.2009.143,

Scopus cit.: 6, Google Scholar cit.: 10,

[IC-31] Mulazzani, F., Russo, B., Succi G., Damiani, E., (2009) *Designing and Developing Monitoring Agents for ERP Systems*. In: Lecture Notes in Business Information Processing 21 LNBIP, Poznan, April 27-29, 2009, BIS 2009, pp. 240-251

DOI: doi.org/10.1007/978-3-642-01190-0_21,

Google Scholar cit.: 0, SNIP: 0.436

[IC-32] Mulazzani, F., Russo, B., Succi G., (2009) *Developing Business Process Monitoring Probes to Enhance Organization Control.* Lecture Notes in Business Information Processing, 24 LNBIP, ICEIS 2009, pp. 456-466

DOI: doi.org/10.1007/978-3-642-01190-0_21,

Scopus cit.: 1, Google Scholar cit.: 1, SNIP: 0.436

[IC-33] Rossi, B., Russo, B., Succi G., (2009) *Analysis of Open Source Software Development Iterations by Means of Burst Detection Techniques*. in Open Source Ecosystems: Diverse Communities Interacting (OSS2009) - IFIP Advances in Information and Communication Technology, Skoevde, Sweden, 3-6 June 2009, vol. 299, pp. 83-93

DOI: doi.org/10.1007/978-3-642-02032-2_9,

Scopus cit.: 9, Google Scholar cit.: 12, SNIP: 0.288,

[IC-34] Rossi, B., Russo, B., Succi G., (2008) *Analysis about the Diffusion of Data Standards inside European Public Organizations*, In: Proceedings of the Workshop e-Government: State and Perspectives in IEEE International Conference on Information & Communication Technologies: from Theory to Applications (ICTTA 2008), 7-11th April 2008, Damascus, pp. 1-6

DOI: doi.org/10.1109/ICTTA.2008.4529953,

Scopus cit.: 2, Google Scholar cit.: 2

[IC-35] Rossi, B., Russo, B., Succi G., (2008) *Empirical Evaluation of Network Externalities in Data Standards Diffusion in a Subset of European Organizations*, eChallenges *2008*, 22-24 October 2008, Stockholm Sweden

[IC-36] Damiani, E., Mulazzani, F., Russo, B., Succi, G., (2008) *SAF: Strategic Alignment Framework for Monitoring Organizations*. In: Proceedings of the 11th International Conference on Business Information Systems, BIS2008,

Innsbruck, Austria May 5-7, 2008, pp. 213-226

DOI: doi.org/10.1007/978-3-540-79396-0_19,

Scopus cit.: 6, Google Scholar cit.: 12, SNIP: 0.436

[IC-37]   Rossi, B., Russo, B., Succi G., (2007) *Open Source Software and Open Data Standards as a form of Technology Adoption: a Case Study*. In: Proceedings of the 3rd International Conference in Open Systems and Software, OSS 2007, IFIP INTERNATIONAL FEDERATION FOR INFORMATION PROCESSING, vol. 234, p. 325-330, ISBN: 978-0-387-72485-0, ISSN: 1571-5736, Limerick, Ireland, June 11–14, 2007,

DOI: 10.1007/978-0-387-72486-7

Google Scholar cit.: 5, SNIP: 0.105

[IC-38]   Rossi, B., Russo, B. Succi, G., (2007) *A method to measure software adoption in organizations: a preliminary study.* In: Proceedings of the International Conference, IWSM–MENSURA 2007, Palma de Mallorca, Spain, November 5-8

Google Scholar cit.: 1

[IC-39]   Rossi, B., Russo, B. Succi, G., (2006) COSPA (consortium for studying, evaluating, and supporting the introduction of open source software and open data standards in the public administration). Proceedings of the 7th Annual International Conference on Digital Government Research, (dg.o 2006), San Diego, California, USA, May 21-24, 2006. ACM International Conference Proceeding Series, vol. 151, p. 153-154,

DOI: 10.1145/1146598.1146647

[IC-40]   Rossi B., Russo B., Succi G., (2006) Open Source Software Migration in Integrated Information Systems in Public Sector. The 8 International Conference on Research and Practical Issues of Enterprise Information Systems (CONFENIS 2006) . IFIP INTERNATIONAL FEDERATION FOR INFORMATION PROCESSING, p. 683-689, ISBN: 0-387-34345-8, ISSN: 1571-5736, Vienna, Austria, April 24–26, 2006

DOI: 10.1007/0-387-34456-X_74

[IC-41]   Rossi B., Russo B., Succi G., (2006) A study on the introduction of Open Source Software in the Public Administration. Open Source Systems (OSS2006). IFIP INTERNATIONAL FEDERATION FOR INFORMATION

PROCESSING, vol. 203, p. 165-171, ISBN: 0387342257, ISSN: 1571-5736, Como, Italy, June 8-10, 2006

DOI: 10.1007/0-387-34226-5_16

[IC-42] Russo B., Sillitti A., Zuliani P., Succi G., Gasperi P., (2005) A pilot project in PAs to transit to an open source solution. *DG.O 2005*, pp. 303-304

https://dl.acm.org/citation.cfm?id=1065332

[IC-43] Russo B, Braghin C, Gasperi P, Sillitti A, Succi G (2005). Defining the total cost of ownership for the transition to open source systems. In: The 1st International Conference on Open Source Systems (OSS2005). p. 108-112, Genova, Italy, 11-15 July 2005

DOI: 10.1.1.205.5679

[IC-44] (*) Sillitti A., Ceschi M., Russo B., Succi G., (2005) Managing Uncertainty in Requirements: A Survey in Documentation-Driven and Agile Companies. *IEEE METRICS 2005*, pp. 10-17

DOI: 10.1109/METRICS.2005.29

[IC-45] Rossi B., Russo B., Zuliani P., Succi G., (2005) On the Transition to an Open Source Solution for Desktop Office Automation. *TCGOV 2005*, pp.277-285

DOI: 10.1007/978-3-540-32257-3_26

[IC-46] Zuliani P., Russo B., Sillitti A., Succi G., (2004). Deploying, Updating, and Managing Tools for Collection Software Metrics. In: The 2004 workshop on Quantitative techniques for software agile process (*QUTE-SWAP '04*) @ FSE. p. 1-4, ACM Press, New York (NY), USA, Newport Beach, CA, USA,, November,

DOI: 10.1145/1151433.1151434

[IC-47] Janes A., Russo B., Zuliani P., Succi G., (2003) An Empirical Analysis on the Discontinuous Use of Pair Programming. In: *The 4th International Conference on Extreme Programming and Agile Processes in Software Engineering* (*XP2003*). LECTURE NOTES IN COMPUTER SCIENCE, vol. 2675, p. 205-214, Springer, ISBN: 3-540- 40215-2, ISSN: 0302-9743, Genova, Italy, May 25–29, 2003 ,

DOI: 10.1007/3-540-44870-5_26

[IC-48] Succi G., Pedricz W., Stefanovic M., Russo B, (2003). An

Investigation on the Occurrence of Service Requests in Commercial Software Applications. *EMPIRICAL SOFTWARE ENGINEERING*, vol. 8, p. 197-205, ISSN: 1382-3256,

DOI: 10.1023/A:1023014713253

Third mission: Participation in radio and television broadcasts	Short lecture "The vulnerability of software" within the broadcast "**Terza Missione**" organized by unibz in collaboration with RAI regionale, April 2019
Third mission: Publications and interviews <u>about</u> the applicant	**Articles about the applicant or his/her projects in the last three years and interviews to the applicants** 11.09.2017 - **Article** in Science South Tyrol: *Una visione Europea* https://www.sciencesouthtyrol.net/Pages/Details/News.aspx?id=125639 &si=UNIBZ&i=UNIBZ&t=2&d=-1&s=3&w=5747 04.09.2017 - **Article** in Altoadige newspaper: *A Bolzano i grandi ricercatori del software- Alla Summer School internazionale di Ingegneria del software anche Devanbu e Erdogmus* http://altoadige.gelocal.it/bolzano/cronaca/2017/09/04/news/a-bolzano-i-grandi-ricercatori-del-software-1.15808405?refresh_ce *04.09.2017* **-** **Article** in Dolomiten newspaper: *Summer School zu Softwaretechnik am Campus Bozen* https://www.stol.it/Artikel/Kultur-im-Ueberblick/Bildung/Summer-School-zu-Softwaretechnik-am-Campus-Bozen 21.08.2017 - **Article** in Alto Adige Innovazione: *Cento studenti alla scoperta dei due atenei* http://www.altoadigeinnovazione.it/trento-bolzano-cento-studenti-alla-scoperta-dei-due-atenei/ 04.07.2017 - **Interview** for the *24 Degrees* magazine of the *European Commission DG Education & Culture* will be producing the second edition of our publication, to appear 08.06.2017 **Article** in Science South Tyrol: Arduino, Open-Sourcing Imagination https://www.sciencesouthtyrol.net/Pages/Details/News.aspx?id=124066 &si=UNIBZ&i=UNIBZ&t=90&d=63&s=3&w=5748 01.06.2017 **Article** *in* Alto Adige Innovazione *Massimo Banzi, a lezione con il fondatore di Arduino l'8 giugno all'Unibz* http://www.altoadigeinnovazione.it/massimo-banzi-a-lezione-con-il-fondatore-di-arduino-l8-giugn/ 19.06.2017 - **Interview** for the regional RAI news TGR - Trentino Alto Adige *La rivoluzione mini-chip* 09.01.2016 - **Interview** at regional Radio RAI Alto Adige - Greenwich: *La Mano Bionica* 26.11.2015 - **Article** in Science South Tyrol: *Europäisches Masterprogramm Mit 2 Mio. Euro Finanziert* https://www.sciencesouthtyrol.net/blob/114552,,,UNIBZ,70,-1.pdf 04.11.2015 - **Article** in the Alto Adige Innovazione, *Profes2015: ricerca, software e industria si incontrano all'Università di Bolzano* http://www.altoadigeinnovazione.it/profes-2015-ricerca-software-e-

industria-si-incontrano-alluniversita-di-bolzano/

Video: http://www.raibz.rai.it/it/index.php?media=Ptv1411770600 minutes 45' -48'

24.12.2015 - **Interview** for the regional RAI news TGR - Trentino Alto: *The makerspace at the Faculty of Computer Science*

03.11.2015 - **Article** in AltoAdige newspaper: *Software, ricercatori a confronto*

http://altoadige.gelocal.it/bolzano/economia/2015/11/03/news/software-ricercatori-a-confronto-1.12383185?ref=search

27.12.2015 - **Article** in AltoAdige newspaper: *Mano bionica All'Università di Bolzano*

http://altoadige.gelocal.it/bolzano/cronaca/2015/12/27/news/mano-bionica-all-universita-di-bolzano-1.12683108?ref=search

25.12.2015 - **Article** in AltoAdige newspaper: *L'università di Bolzano crea la mano bionica*

http://altoadige.gelocal.it/bolzano/cronaca/2015/12/25/news/l-universita-di-bolzano-crea-la-mano-bionica-1.12677546?ref=search

26.09.2014 - **Interview** at local RAI Alto Adige - Passpartu, for the exhibition at the La Lunga Notte della Ricerca 2014 - LUNA

Third mission: Active participation in exhibitions and public events	– April 1st, 2017 **ArduinoDay@unibz** https://www.unibz.it/en/news/122287-arduino-day-a-bolzano
	– October 13-16, 2016 **Maker Fair 2016**: *La mano bionica*, Fiera di Roma, Roma
	– September 18th 2016, *The Naval Battle: Progettare, Programmare, e Stampare… Per Poi Affondare! Battaglia Navale Con Le Stampanti 3d*, **Lunga Notte della Ricerca** - LUNA 2016, Bolzano, https://lunganottedellaricerca.it/it/programma
	– September 26th 2015 *Letter Adventure,* **Lunga Notte della Ricerca** - LUNA 2014, Bolzano, https://lunganottedellaricerca.it/it/programma
	– 2014 *Reducing Search Space: A Mobile Application for Lifeguards Alerting*, **Lunga Notte della Ricerca** - LUNA 2014, Bolzano

Further data

Keynotes, Invited talks, contributed talks, and invitation to prestigious meetings:

– June 14-19, 2019 **invited participation** to the **Dagstuhl Seminar** *Values in Computing* organized by Christoph Becker - University of Toronto, Canada, Gregor Engels - Universtaet Padernborn, Germany, Andrew Feenberg – Simon Fraser University, Canada, Maria Angela Ferrario – Lancaster University, UK, Geraldine Fitzpatrick – TU Wien, Austria, Universitaet des Saarlandes, Saarbruecken, Germany

– May 28th, 2018, **contributed talk** *Profiling call changes via motif mining*, at the 15th International Conference on Mining Software Repositories, May 28-29, 2018. Gothenburg, Sweden

– December 11- 14, 2017, **invited participation** to the **Shonan Meeting** titled "*Data- Driven Search-Based Software Engineering* " of National Institute of Informatics (NII), Japan organized by Markus Wagner, University of Adelaide, Australia Leandro Minku, University of Leicester, UK, Ahmed E. Hassan, Queen's University, Canada, John Clark, University of Sheffield, UK, Shonan Village Center (SVC)

– June 26 - 29, 2017, **invited participation** to the **Shonan Meeting** titled "Towards Engineering Free/Libre Open Source Software (FLOSS) Ecosystems for Impact and Sustainability" of National Institute of Informatics (NII), Japan organized by Brian Fitzgerald, University of Limerick, Ireland, Audris Mockus, University of Tennessee, USA, Minghui Zhou, Peking University, China, Shonan Village Center (SVC)

– November 11th 2017, **contributed talk** *Mining Logs to Model the Use of a System*, at the 11th International Symposium of Empirical Software Engineering and Measurement, 2017, Toronto, Cana

– May 14, 2016, **contributed talk** *A large-scale empirical study on*

self-admitted technical debt, at the 13th International Conference on Mining Software Repositories, May 14–15, 2016. Austin, Texas

– January 19 2016, **invited talk** *Mining System Logs to Learn Error Predictors*, at the HPC+Big Data Workshop, Universidad de la Frontera, Chile

– January 22nd 2016, **invited talk** *The FabLab as instrument of open innovation and education*, at the HPC+Big Data Workshop, Universidad de la Frontera, Chile

– November 10th 2016, **invited talk** *Mining logs to predict system errors,* at Masaryk University, Check Republic

– December 2nd 2015, **keynote** *Mining logs to predict system errors*, at the 1st International Workshop on Processes, Methods and Tools for Engineering (PROMOTE2015), December 2nd 2015, Bolzano, Italy

– June 9th 2015, **invited talk**: *Mining logs to learn error predictors*, at the Universität Stuttgart, Germania

– September 17th, 2014 **contributed talk** *A proposed method to evaluate and compare fault predictions across studies*, at the 10th International Conference on Predictive Models in Software Engineering (PROMISE2014), September 17, 2014, Turin, Italy

– June 3rd, 2014, **contributed talk** *What can changes tell about software processes*, at the 5th International Workshop on Emerging Trends in Software Metrics (WeTSOM 2014), Hyderabad, India, June 3rd, 2014

– June 6th, 2013, **invited talk** *Uno studio sull'uso e necessità di servizi cloud nel settore pubblico altoatesino*, at the 1st workshop of computer science research meets business, Libera Università di Bolzano

– 2013 , **contributed talk** *Commit Graphs* at the workshop DPSE@ICSE2013

– 2013 , **contributed talk** *Parametric Classification over Multiple Samples*, at the workshop DPSE@ICSE2013

– 2009, **contributed talk** *Modelling Failures Occurrences of Open Source Software with Reliability Growth*, OSS2009

– October 29th, 2009, **invited talk** *A Quantitative Approach to Assess Secondary Adoption of Innovation: a Case Study on OpenOffice.org*, at the University of Limerick, Ireland

– May 5th 2006, **invited talk** "The Agile Perspective" at the International Workshop of the CALIBRE series, Limerick

November 15 – 17, 2004 **invited talk** *The Cospa Project* at the OpenForum Europe at IST2004, The Hague, The Netherlands

Statement of interest In these years, I have been *promoting the culture of empirical and applied research in software engineering* among students and colleagues of the Faculty of Computer Science and University, in research and professional communities, and in the territory.

In particular, I have been building *theories for software systems and tested their feasibility using empirical evidence and data gathered from any sort of context* (see, my reflections over research in my filed in publications [IC-33], [IC-34], and [BC-8]). This type of research requires in field studies. As such, in the last fourteen years, I have established several long-term collaborations with companies and organizations in the province of Bolzano and at national and international level. Such collaborations can be traced in some of my publications (e.g., [BA-1], [BC-9-10], [IC 24-25], [IJ 15], [IJ 17], and [IJ 19]) and in some of the last funded grants or contracts (e.g., [GAUSS, CMOSS, AngelEye]). These contacts also facilitate the allocation of students for the Internship program I have established within the European Masters Course in Software Engineering.

I also actively worked to promote and disseminate the research culture with several events targeted to various stakeholders at local, national, international level. This is testified, for example, by the organization in Bolzano of the following events:

− The 4th International Symposium on Empirical Software Engineering and Measurement (ESEM2010) - for international researchers

− The 16th International Conference on Product-Focused Software Process Improvement (PROFES2015) or the workshop series Alpine Software Engineering Week (ASEW) - for professionals and researchers

− The five editions of the school SESummerSchool - for PhD, highly qualified MSc students and professionals

Together with my teaching activity (e.g., Erasmus Mundus European Masters Programme in Software Engineering (EMSE)), this dissemination was also intended to reach out the most and publicize the Faculty and the whole university (the articles 'about me' testify part of such activity), as it can be testified, for example, by the organization of

− The Arduino workshop in 2015 - for students of the BSc in computer science

− The makerspace kick-off in 2014 - for citizens and university community

− Since 2013, the Internship program - for second year MSc students of the European Masters Course in Software Engineering

Overall, I see my contributions to the Faculty of Computer Science and the whole university generated by my experience, ability, and interest I have shown in these years as in the following:

− Experience and ability to perform high-quality research, supervise

studies and research works of BSc, MSc, and PhD students, and young researchers, and evaluate quality in research works.

− Experience and ability to attract external funds through highly competitive calls both in technical research (e.g., GAUSS 6,4% acceptance rate over 4400 project proposals) and industrial oriented programs (e.g., DevSecOps ongoing proposal) or in teaching programs (e.g., EMSE - Erasmus Mundus, JMSE -TEMPUS IV)

− Experience and ability to establish and maintain synergies with companies by organizing events (e.g., PROFES2015 and ASEW), performing in-field studies also in international settings (e.g., ongoing collaboration in the DEBASS project with the ALMA telescope observatory in Chile) and implementing students' activities with companies (e.g., the Internship program in EMSE)

− Interest and experience in working in interdisciplinary settings (e.g., the ongoing projects TCC_Europe20202 with prof. Valle of the Faculty of Economics and DramaLäb project with prof. Krois of the Faculty of Art and Design)

− Ability to foster opportunities and anticipate innovation in teaching for worthy students to increase their knowledge in computer science and employability and, on the other hand, bring them closer to the local territory and the research performed at university (e.g., scholarships and internship program within the EMSE international course, the makerspace and the FabLab, the Arduino workshop for the BSc students)

− Ability and experience in coordinating groups of people of different types (e.g., coordination of the macro area SwSE, coordinator of university consortium for the EMSE program - peers and administrative staff - and unit coordination of several research projects)

− Experience and availability for organizing events at the Free University of Bozen - Bolzano for high school students (e.g., the laboratory on IoT for the Traumberuf Woche) and citizens (e.g., the makerspace).

Language competence	Written and spoken competence in all languages according to CERF levels, Common European Reference Framework
	Language: C2 Italian, (native speaker)
	Language: C1 English, Certificate in Advanced English, grade: B
	Language: B2 German, Goethe-Zertificat B2, grade: Befriedigend
	Other Language: scholastic French

The undersigned Barbara Russo gives his/her consent to his/her personal data being processed, within the limits of the legislative decree 196/2003, for formalities connected with the present procedure.

Date *July, 31th 2018*   Signature