

**CURRICULUM VITAE ET STUDIORUM
AND OF THE SCIENTIFIC AND ACADEMIC ACTIVITIES
OF PROF. GIUSEPPE SCANNIELLO**

Personal Information

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Biographical Sketch

Prof. Giuseppe Scanniello was born in Maratea (PZ), Italy, on 5/1/1975. He received the Laurea degree in Computer Science from the University of Salerno, Italy, in 2001, and the Ph.D. in Computer Science from the same university in 2005.

From 2001 to 2005 he was a Ph.D. student at the Department of Mathematics and Computer Science of the University of Salerno (Italy) under the supervision of prof. Andrea De Lucia and prof. Gennaro Costagliola. From 07/01/2004 to 06/30/2005 he was a research fellow at "Centro di Eccellenza sulle Tecnologie del Software" at the University of Sannio (BN), Italy.

In 2006 he joined the Department of Mathematics, Computer Science, and Economics at the University of Basilicata, Potenza (Italy), where he was an Assistant Professor from 7/17/2006 to 7/5/2015. He is currently an Associate Professor at such University.

Prof. Giuseppe Scanniello obtained the Italian National Scientific Qualification as Full Professor in Computer Science for both the sectors INF/01 (01/B1) and ING-INF/05 (09/H1). He is the Director of the Infrastructure Center and ICT Systems at the University of Basilicata, where he also found and lead the BASE (Basilicata Software Engineering) Lab.

Prof. Giuseppe Scanniello has been a member of IEEE, ACM, and IEEE Computer Society.

Scientific Interests

The research activity of prof. Giuseppe Scanniello is mainly concerned with the Software Engineering field. During his research, he also dealt with issues related to the design and construction of languages and visual interfaces for software engineering environments and support for e-learning and collaborative work, with particular reference to adaptive learning processes, and workflow management. Recently, he is working in the field of data science and user-centric experimentation with a specific focus on peopleware (a term used to refer to one of the three core aspects of computer technology, the other two being hardware and software). The main research interests of prof. Giuseppe Scanniello can be classified as follows:

1. Empirical software engineering
2. Peopleware and developer-centric assessment
3. Software verification and validation with specific focus on testing and regression testing
4. Migration, maintenance and evolution of inherited/legacy software systems
5. Visual languages for software engineering and modelling
6. Environments for the definition, design and use of e-learning processes

For each of the above-mentioned interests, theoretical, methodological, and technological objectives have been pursued. In particular, the theoretical objectives have materialized in the definition of models, algorithms, and methods to support the problems inherent to the interests listed above, while the methodological objectives have led to the definition of organizational paradigms on which to base the preparation of their typical processes. The definition of the theoretical models and organizational paradigms has been constantly accompanied by the technological research of the characterization of software tools supporting these processes, and by their prototypal implementation. These tools have been tested, through the preparation of empirical evaluations (e.g., case studies, case-control studies, controlled experiments, focus-group studies, survey, interviews, and so on) in the context of applied and non-applied research projects, often conducted in collaboration with software companies, with the final goal to transfer (or at least to promote the transferring of) the developed technologies to the practitioners.

The scientific and research activities concerned with the research interests of prof. Giuseppe Scanniello might be proved by the following references to his main journal and conference publications.

Main International and National Research Collaborations (ongoing and past)

- Prof. Patricia Lago, Prof. Ivano Malavolta, Department of Computer Science, Faculty of Sciences, VU University Amsterdam, the Netherlands. Topics: Green Software Engineering, Refactoring and Bad Smell, Software Maintenance and Evolution.
- Prof. Barbara A. Kitchenham, Keele University, UK, Topics: Empirical Software Engineering, User-Centric Data Science and Analysis.
- Prof. Lech Madeyski, Wroclaw University of Science and Technology, Poland, Topics: User-Centric Data Science and Analysis, Empirical Software Engineering.
- Prof. Michele Lanza and Prof. Gabriele Bavota, University of Lugano, Switzerland, Topics: Mining Software Repositories, User-Centric Data Science and Analysis, Software Visualization.
- Prof. Giuliano Antoniol, École Polytechnique de Montréal, Montréal, (Québec) Canada. Topics: Software Testing, Search Based Software Engineering.
- Prof. Natalia Juristo, Politecnico di Madrid, Topics: Test Driven Development, Empirical Software Engineering, Data Science and Analysis.
- Prof. Denys Poshyvanyk, College William and Mary, USA, Topics: Refactoring and Bad Smell, Software Maintenance and Evolution.
- Prof. Davide Fucci, Prof. Burak Turhan, Prof. Marku Oivo, University of Oulu Graduate School, Finland, Topics: Test-Driven Development, Empirical Software Engineering, Data Science and Analysis.
- Prof. Egidio Astesiano, Prof. Gianna Reggio, Prof. Filippo Ricca, University of Genova, Italy. Topics: Requirements Engineering, Empirical Software Engineering, Data Science and Analysis.
- Prof. Adrian Marcus, University of Texas at Dallas, USA. Topics: Concept and Feature Location, Software Maintenance and Evolution.
- Prof. Silvia Abrahão, Prof. Emilio Insfran, and Dott. Javier Gonzalez-Huerta, Università Politecnica de Valencia, Spain. Topics: Requirements Engineering, Software Modeling, Empirical Software Engineering.
- Prof. Mariateresa Baldassarre, Prof. Danilo Caivano, University of Bari, Italy, Topics: Test-Driven Development, Empirical Software Engineering, Data Science and Analysis, Software Maintenance and Evolution.
- Dott. Francesco Dicerbo, SAP Research, Topics: Software Modeling and Empirical Software Engineering, Software Maintenance and Evolution.
- Prof. Gabriella Doderò, Free University of Bolzano, Italy. Topics: Software Modeling and Empirical Software Engineering, Software Maintenance and Evolution.
- Prof. Marcela Genero, Dott. José A. Cruz-Lemus Department of Technologies and Information Systems University of Castilla La Mancha, Spain. Topics: Software Modeling, Empirical Software Engineering, Software Maintenance and Evolution.
- Dott. Alessandro Marchetto, Dott. Angelo Sussi, Dott. Valerio Maggio, Fondazione Bruno Kessler, Topics: Testing, Search Based Software Engineering, Machine Learning, Data Science and Analysis, Computational linguistics.
- Prof. Damiano Distantè, Facoltà di Economia, University Unitelma Sapienza, Roma, Italy. Topics: Web Engineering and Reengineering.
- Prof. Genoveffa Tortora, Prof. Andrea De Lucia, Prof. Filomena Ferrucci, Prof. Carmine Gravino, Prof. Rita Francese, Prof. Michele Risi, Prof. Giuseppe Polese. University di Salerno, Italy. Topics: Software Engineering, Software Maintenance and Evolution, Empirical Software Engineering, Global Software Development, Cooperative Modelling, Software Visualization, Mobile Development Analysis and Evolution, e-learning.
- Prof. Marco Torchiano, Prof. Mauriso Morisio. Politecnico di Torino, Italy. Topics: Requirements Engineering, Empirical Software Engineering, Green Software Engineering.
- Prof. Anna Corazza, Dott. Porfirio Tramontana, Prof. Sergio Di Martino, University Federico II, Napoli, Italy. Topics: Software Maintenance and Evolution, Machine Learning, User-Centric Data Science and Analysis, Computational linguistics.
- Dott. Fabrizio Silvestri, ISTI – CNR, Pisa, Italy. Topics: Software Clustering, Computational Linguistics.
- Prof. Alessandro Moschitti, University of Trento, Italy. Topics: Software Clustering, Computational Linguistics.
- Prof. Tim Menzies, West Virginia University, USA. Topics: Fault Prediction, Software Clustering.
- Prof. Fausto Fasano, University of Molise, Italy. Topics: Global Software Engineering.
- Prof. Miroslaw Staron, Prof. Rogardt Heldal, Dott. Hakan Burden University of Gothenburg, Sweden. Topics: Requirements Engineering, Empirical Software Engineering.
- Prof. David Lo, Prof. Tien-Duy B. Le, Dott. Lucia Lucia, prof. Jianling Sun, School of Information Systems, Singapore Management University. Topics: Machine Learning, Information Retrieval, Concept Location, Concern Localization.
- Prof. Hausi Muller, Faculty of Engineering, Department of Computer Science, University of Victoria, Canada. Topics: Green Software Engineering.

- Prof. Foutse Khomh e Yann-Gaël Guéhéneuc Ecole Polytechnique de Montréal, Topics: Software Refactoring and Bad Smells.
- Prof. Fabio Petrillo, Université du Québec à Chicoutimi, CAN, Topics: Software Refactoring and Bad Smells.
- Prof. Martin Shepperd, Brunel University London, Department of Computer Science, UK. Topics: Empirical Software Engineering.

Awards

- Best paper award at the 46th The Euromicro Conference Series on Software Engineering and Advanced Applications Conference (SEAA 2020) for the paper:
On Researcher Bias in Software Engineering Experiments: Results from a Qualitative Investigation
- In 2017 prof. Giuseppe Scanniello was beneficiary, as Associate Professor, of “Funding of Basic Research Activities” (FFABR). The individual amount of the annual funding was € 3,000 and was only assigned to 25% of the Italian Associate Professors who applied for it. The applicants were assessed on their scientific production and quality.
- Best paper award at the ACM/IEEE International Symposium on Empirical Software Engineering and Measurement (ESEM 2016) for the paper:
“An External Replication on the Effects of Test-Driven Development Using a Multi-site Blind Analysis Approach”
- Best paper award at International Workshop on Distance Education Technologies for the paper:
“Supporting Mobile Development Project-Based learning by Software Project and Product Measures”.
- Highly Commended paper award for the International Conference on Evaluation and Assessment in Software Engineering for the paper:
“Results from an Ethnographically-informed Study in the Context of Test-Driven Development”
- Best paper award at International Workshop on Distance Education Technologies for the paper:
“On the Experience of Using Git-Hub in the Context of an Academic Course for the Development of Apps for Smart Devices”
- Nomination for best paper award at 41st Euromicro Conference on Software Engineering and Advanced Applications for the papers:
“On the Coherence Between Comments and Implementations in Source Code”
“On the Use of Requirements Measures to Predict Software Project and Product Measures in the Context of Android Mobile Apps: A Preliminary Study”
- Nomination for best paper award at the ACM/IEEE International Symposium on Empirical Software Engineering and Measurement for the paper:
A Longitudinal Cohort Study on the Retainment of Test-Driven Development (it also got the Open Data Recognition award)
- Nomination for best paper award at ACM/IEEE International Conference on Model Driven Engineering Languages and Systems for the paper:
A Precise Style for Business Process Modeling: Results from Two Controlled Experiments
- Awarded as Outstanding Reviewer Status for the Information and Software Technology Journal (2014-2015), Elsevier.
- Distinguished reviewer for Transactions on Software Engineering and Methodology (2020, 2019), ACM.
- Distinguished Reviewer for the International Conference on Evaluation & Assessment in Software Engineering, 2013.

Program Committees and Expert Review Panel

- ACM/IEEE International Conference on Software Engineering, 2017.
- IEEE/ACM International Conference on Automated Software Engineering, 2017.
- Doctoral Symposium dell’ IEEE/ACM International Conference on Automated Software Engineering (2016).
- IEEE International Conference on Software Maintenance and Evolution, (2021, 2020, 2018, 2016, 2015, 2015-ERA, 2014-ERA, 2013, 2012, 2011).
- ACM/IEEE International Symposium on Empirical Software Engineering and Measurement (2021, 2020, 2018, 2017, 2014).
- IEEE International Conference on Software Analysis, Evolution, and Reengineering (2020, 2018, 2016, 2015, 2014, 213-CSMR).
- ACM/IEEE International Conference on Program Comprehension (2020, 2020-ERA, 2019, 2016, 2013, 2011).

- International Conference on Evaluation & Assessment in Software Engineering (2021, 2020, 2019, 2018, 2017, 2016, 2014, 2013, 2012).
- International Conference on Product-Focused Software Process Improvement (2021, 2020, 2019, 2018, 2017, 2013, 2011).
- ACM/IEEE International Conference on Model Driven Engineering Languages and Systems, Workshops Selection Committee (2015).
- ACM Student Research Competition at ACM/IEEE International Conference on Model Driven Engineering Languages and Systems (2014).
- Conference on Software Maintenance and Reengineering (2014, 2013).
- Euromicro Conference series on Software Engineering and Advanced Applications (2015, 2014).
- International Conference on ICT for Sustainability (2019, 2018, 2017, 2016, 2015, 2014)
- QUATIC (Track: Quality Aspects in Evidence-Based Software Engineering) (2019).
- International Symposium on Web Systems Evolution (2011, 2010, 2009, 2008, 2007).
- International Conference on Software Engineering Advances (2014, 2013, 2012, 2011).
- International Conference on Computer Supported Education (2014, 2013, 2012, 2011, 2010).
- International Workshop on Experiences and Empirical Studies in Software Modeling (2013, 2012, 2011).
- International Conference on Advanced Software Engineering & Its Applications (2013, 2012).
- International Conference on Software Engineering and Applications (2014, 2013).
- International Conference e-Society (2014, 2013, 2012, 2011, 2010, 2009).
- International Conference on Advances in Human-oriented and Personalized Mechanisms (2013).
- International Working Conference on Advanced Visual Interfaces - Interactive Posters Track (2012).
- International Workshop on Distance Education Technologies (2014, 2013, 2012, 2011, 2010, 2009).
- International Conference on Product Focused Software Development and Process Improvement main track and industrial, short paper, and poster tracks (2020, 2019, 2012).
- European Track of the Conference on Software Maintenance and Reengineering (2013, 2011).
- International Workshop on SOA Migration and Evolution (2010).
- International Summer School on Software Engineering (2009-Today).

Organization and Review Activities

- Program Co-Chair for the 47th Euromicro Conference Series on Software Engineering and Advanced Applications (SEAA), 2021.
- Program Co-Chair (Track IS Methodologies and Education) for the 29th International Conference on Information Systems Development (ISD 2020/2021), Valencia, Spain.
- Program Co-Chair for the International Advanced School on Empirical Software Engineering (IASSES 2020-2021, Topics: Design Science Paradigm); Bari, Italy.
- Demo Co-Chair for the 43rd International Conference on Software Engineering (ICSE 2021), Madrid, Spain 2021.
- General chair for the 22nd International Conference on Software Visualization (IV 2018), Salerno, Italy.
- Program Co-Chair (Track Managing ISD, Information System Development), for the 27th International Conference on Information Systems Development (ISD 2018), Lund, Sweden, August.
- Program Co-Chair for the Early Research Achievement Track of the ACM/IEEE International Conference on Program Comprehension (ICPC 2018).
- Organizer for a research working day on Computational Linguistics at the University of Basilicata: "Lingua e Computer: Esperienze dalla Ricerca in Elaborazione del Linguaggio Naturale" (2018).
- General-Chair of the ACM/IEEE International Conference on Program Comprehension (ICPC 2017).
- From 2017 he is a member of the Steering Committee of the GREENS (Green and Sustainable Software) workshop.
- Program-Chair for short paper track of the ACM/IEEE International Symposium on Empirical Software Engineering and Measurement (ESEM 2016).
- Program-Chair of the International EUROMICRO Conference on Advanced Software Engineering and Advanced Applications (SEAA), Track on Software Management, 2016.
- Proceedings Chair for the ACM/IEEE International Conference on Program Comprehension (ICPC 2015).
- From 2012 to 2016 organizer for the GREENS (Green and Sustainable Software) workshop; collocated with the ACM/IEEE International Conference on Software Engineering (ICSE).
- 2013 organizer for the MALIR-SE (MAchine Learning and Information Retrieval for Software Evolution) workshop; collocated with the ACM/IEEE International Conference on Automated Software Engineering.
- From 2019 he is a member of the ACM TOSEM (Transactions on Software Engineering and Methodology) Board of Distinguished Reviewers.
- From 2014 he is a member of the Review Board for the International Journal on Empirical Software Engineering (EMSE).

- Prof. Giuseppe Scanniello is or has been a member of the editorial board of several minor/medium International Journals in the field of Computer Science: Journal of Scientific Programming, Global Journal of Advanced Software Engineering, Asian Journal of Computer Science, International Journal on Advances in Software Engineering, International Journal of Man, Machine and Technology, International Journal of Patterns

Review Activities for International Journal

- IEEE Transactions on Software Engineering
- ACM IEEE Transactions on Software Engineering and Methodologies
- International Journal on Empirical Software Engineering, edited by Springer.
- IEEE Software.
- International Journal of Systems and Software, edited by Elsevier.
- International Journal of Software Maintenance and Evolution, edited by Wiley, Inc.
- International Journal of Visual Languages and Computing, edited by Elsevier.
- International Journal on Software Tools for Technology Transfer, edited by Springer.
- International Journal on Science of Computer Programming, edited by Elsevier.
- International Journal on Information and Software Technology, edited by Elsevier.
- IET Software International Journal (also known as IEE Proceedings Software), edited by IEE.
- Advances in Software Engineering.
- International Journal of Interactive Technology and Smart Education.
- International Journal of Library and Information Science.
- International Journal of Software Engineering and Knowledge Engineering.
- International Journal on Advances in Software (IARIA Journals).
- International Journal of Educational Technology & Society.

Related Research Activities

- Scientific Committee member for the International Summer School on Software Engineering - ISSSE (2014, 2013, 2012, 2011, 2010)
- Organizing Committee for the International Summer School on Software Engineering - ISSSE (2009)
- Local Arrangements Chair of the 5th International School on Software Engineering (2008), Salerno, Italy.
- Scientific secretariat member and webmaster of the International School on Software Engineering (2006, 2005, 2003).
- Webmaster of the 3rd International Workshop on Cooperative Support for Distributed Software Engineering Processes (2004).
- Exhibition Chair and Webmaster of the 14th International Conference on Software Engineering and Knowledge Engineering, Ischia, Italy.

Management activities

- From 2021 to 2025 he is the Director of the Infrastructure Center and ICT Systems at the University of Basilicata (this center manages the ICT services and includes about 10 personal units).
- From 2021 he has the scientific-technical reference role for the agreement between CRUI and University of Basilicata for the management of IT goods and services.
- From 2020 he is a member of the Integrated Technological Group (GTI, Gruppo Tecnologico Integrato) of the Ministry of Defense of the Italian Republic.
- From 2020 to 2026 he is the delegate of the University of Basilicata for the GARR Network, the Italian National computer network for Universities and research centers.
- From 2019 he is the delegate of the Rector of the University of Basilicata for the CINECA (National Interuniversity Consortium, i.e., a non-profit consortium, made up of 70 Italian universities, four national research centers, and the Ministry of Universities and Research).
- From 2019 he is the delegate of the University of Basilicata for the GRIN (GRuppo dei professori e ricercatori in INformatica).
- From 2018 to 2021 he is the President of the Infrastructure Center and ICT Systems at the University of Basilicata (this center manages the ICT services and includes about 10 personal units).
- From 2018 to 2020 he is the delegate of the University of Basilicata for the GARR Network, the Italian National computer network for Universities and research centers.
- From 2016 he is the delegate of the University of Basilicata for the PMI (Project Management Institute) Southern Italy Chapter.
- From 2015 he is the Head of the BASE (BASilicata Software Engineering) Lab at the University of Basilicata, which currently hosts: two Ph.D. students, one scholarship, and two Research Fellows.

- From 2015 to 2020 he has been the delegate, of the Bachelor Degree in Computer Science of the Department of Mathematics, Computer Science, and Economics at the University of Basilicata, for the Peer Commission of Lecturers and Students.
- From 2014 he is the coordinator for the Research Area in Computer Science at the University of Basilicata (Department of Mathematics, Computer Science, and Economics).
- From 2014 he is a Member of Management Board of the Department of Mathematics, Computer Science, and Economics at the University of Basilicata. This board is composed of major representatives of the Department Council, who are directly nominated by the dean of the department.
- From 2014 to 2010 has been a delegate of the Department of Mathematics, Computer Science, and Economics for the Infrastructure Center and ICT Systems of the University of Basilicata.
- From 2006 has been Member of several commissions at the University of Basilicata to assess the teaching and research qualification of temporary lecturers for courses of the Bachelor and Master programs in Computer Science and Computer Engineering, respectively. A list of these courses is: Laboratory of Computer Programming, Basic of Computer Programming, Procedural Programming, Object-Oriented Programming, Advanced Object-Oriented Programming, Client-Server Computer Programming, Web Development, Informative Systems, Computer Networks, Databases, Operating Systems.
- From 2006 he is a Member of the Didactic Board in charge to handle and monitor the formative processes of the Bachelor and Master Degrees in Computer Science and Computer Engineering, respectively, at the University of Basilicata.

Management of Research and Formative Projects

- Prof. Giuseppe Scanniello had the scientific-technical reference role for the SPAM (Sicurezza e Pubblica Amministrazione) course March-April 2021. He also covered management roles in SPAM (5.500€).
- Prof. Giuseppe Scanniello had the scientific-technical reference role for a CISCO course held at the University of Basilicata in the academic year 2020/2021. (about 30.000€)
- INPS (Istituto Nazionale Previdenza Sociale) Title: "MASTODON (MANagement and STOrage of Digital dOcumeNts)." Prof. Giuseppe Scanniello designed and managed several aspects of this course (e.g., organization, design and delivery of the overall didactic process, lecturers' and learners' selection, the assessment model for learners, and so on), which was financed on competitive basis. (xxx.yy€). From November 17th, 2020, to March 15th, 2021.
- Experis S.r.l. Title: "KEIRETSU: Piattaforma cloud modulare per la creazione di un ecosistema finalizzato alla trasformazione digitale e sostenibile delle piccole e medie imprese," funded on "Regolamento regionale della Puglia per gli aiuti in esenzione n. 17 del 30/09/2014 (BURP n. 139 suppl. del 06/10/2014) TITOLO II CAPO 1 DEL REGOLAMENTO GENERALE "Avviso per la presentazione dei progetti promossi da Grandi Imprese ai sensi dell'articolo 17 del Regolamento" – Project code V9UFIL5. Specifically, prof. Giuseppe Scanniello worked, as scientific coordinator, on the definition of Microservices and APIs for Manufacturing Resource Planning Service. (30.000€) From to March 06 2023
- INPS (Istituto Nazionale Previdenza Sociale) Title: "DAKAR (DigitAI Knowledge e pubblica Amministrazione)." Prof. Giuseppe Scanniello designed and managed several aspects of this course (e.g., organization, design and delivery of the overall didactic process, lecturers' and learners' selection, the assessment model for learners, and so on), which was financed on competitive basis. (20.741,30€). From December 13th, 2019, to September 15th, 2020.
- Prof. Giuseppe Scanniello has the scientific-technical reference role for a CISCO course held at the University of Basilicata in the academic year 2019/2020. (7.778,00€)
- ARTIS Consulting S.p.A. Title: "NAV Fondi Aperti." Object: Definition of methods, techniques, and tools for the testing of platforms for supervised entities operating in the traditional investment funds market. (50.000€). From October 1st, 2019, to September 30th, 2020. As part of this project prof. Giuseppe Scanniello was also responsible for a six-month scholarship from October 1st, 2019, to September 30th, 2020.
- On behalf of the Rector and the Director of the Department of Mathematics, Computer Science, and Economics of the University of Basilicata, prof. Giuseppe Scanniello has submitted a proposal to the MiUR (Ministry of University and Research), Department for Higher Education and Research, in the context of the public announcement "ATTRACTION AND INTERNATIONAL MOBILITY" and in the specialization area: Smart, Secure and Inclusive Communities. The proposal was accepted and allowed receiving 353.193,12€ as financing to hire an assistant professor (RTD-A) for three years. Object: definition, implementation and experimentation of solutions based on Gamification to the following specialization fields: Smart Governance, Smart Economy, Smart Mobility, Smart Environment, Smart People, and Smart Living. (2019-2022).
- University of Basilicata. Title: "CASPEV: Comprensione di Artefatti Software Per l'Evoluzione." Object: Definition of methods, techniques and tools for the analysis of software artifacts to support

- the evolution of legacy system. The proposed solutions have been assessed by a number of empirical studies. The greater part of these studies are human-centric experiments. (about 20K€). 2013-2018.
- University of Basilicata. Title: “NLP for regression TEsting – NLP4TE.” Object: Investigating the use of Natural Language Processing Techniques in the context of Regression Testing. The main goal is the definition of methods, techniques, and tools to support: test case section, test case prioritization, and test suite miniaturization/minimization. (about 20K€). 2018-2021.
 - University of Basilicata. Title: “Software Engineering for Smart Applications.” Object: Defining approaches to support the development and evolution of software applications, with a special focus on the definition of methods for predicting the effort required to develop and maintain applications for smartphones (i.e., Apple and Android). It has been investigated the possibility of using artificial intelligence techniques to define models for estimating costs and energy consumption, as well as the possibility of using past information to predict the presence of faults within the source code of smartphone applications. (about 7K€). 2018-2021.
 - Prof. Giuseppe Scanniello was responsible for the Task 6.2.1 as part of the Industrial Research Project and non-predominant Experimental Development, specialization area “Aerospace”, referred to the aid application marked by the identification code ARS01_00405 entitled “OT4CLIMA - Innovative OT Technologies for studying the impacts of climate change on the environment.” The activities of this project are carried out in the PON Research and Innovation 2014 - 2020 resources and took effect from 01/09/2018. Task 6.2.1 concerns the definition of functional specifications, data and processing chains. In this activity, the functional requirements of the services will be identified and specified from the end-user-point of view and data, techniques and specific processing algorithms will be modeled accordingly. OT4CLIMA lasted thirty months (total cost of the project 4.4M€; while the total funded amount was 20000€ for the task T 6.2.1).
 - Basilicata Region and the Consortium for the Scientific and Technological Research Area of Trieste. Title: “Feasibility Study for the Definition and Testing of an Approach to Migrate Apps for Smartphones to Wearable Devices.” Object: Defining a strategy to migrate apps originally developed for smart devices (e.g., smartphone) to wearable devices (e.g., smartwatch). The developed solutions were tested in a pilot project to assess their validity. This project is founded on resources of the P.O. F.E.S.R. Basilicata 2007-2013 Axis II - Knowledge Society L.I. II.1.2.a (about 20.000€). From 23-07-2015 to 31-10-2015.
 - ERASMUS+ Title: “EO4GEO: Towards an innovative strategy for skills development and capacity building in the space geo-information sector supporting Copernicus User Uptake.” Prof. Giuseppe Scanniello led the execution of Task 3.4 (Testing and Documenting Platform Tools) within WP 3 (Developing an Integrated Platform of Collaborative Tools) on which the University of Basilicata was responsible for. EO4GEO was funded under the EACEA / 04/2017 Erasmus + KA2: Cooperation for innovation and the exchange of good practices - Sector Skills Alliances call. Project N°: 591991-EPP-1-2017-1-IT-EPPKA2-SSA-B. 2018-2021.
 - Prof. Giuseppe Scanniello, in 2014, has been the referent for the PERCORSI ABILITANTI SPECIALI (PAS) at the University of Basilica for the following formative classes A034 (ELETTRONICA), A042 (INFORMATICA), A048 (MATEMATICA APPLICATA), and A049 (MATEMATICA E FISICA).
 - Consorzio per le Tecnologie per le Osservazioni della Terra e dei Rischi Naturali (TeRN). Title: “Networking and Internationalization of Basilicata Space Technologies - NIBS.” Prof. Giuseppe Scanniello was responsible for what concerns the study and research activities between the Department of Mathematics, Computer Science, and Economics of the University of Basilicata and the Consortium for Technologies for Earth Observations and Natural Risks (TeRN) within the following objective: Prototyping of STS Lucano applications/products on multi-platform systems (mobile phones, tablets, etc.) for demonstration purposes, or Study and research activities for the development of demonstrative APPs aimed at acquiring observations direct citizens to integrate them into an environmental monitoring and civil protection systems. The project has been funded under the PO-FESR Basilicata 2007-2013 under Axis II - L.I. II. 1. 2C and Axis III –L.I. III. 3.1. A (n. 1078 of 07/08/2012 BUR n. 31 27/08/2012). (34.781,24€). From September 2015 to December 2015.
 - MiUR (Minister of the University and Research). Title: “Un Sistema Visuale per la generazione di Gateway per sistemi informativi eterogenei.” Object: The goal of this project was to define and experimenting user-interfaces based on visual programming languages, whose goal was the generation of communication gateway among heterogeneous system. (about 1,5K€). 2003.

Participation in National Research Projects

Prof. Giuseppe Scanniello also collaborated to several research projects. A list of the (main) projects follows: “Realtà Aumentata per la Manutenzione delle Linee Elettriche” (2014-2015); “Studio, Progettazione, Sviluppo e Sperimentazione di un Framework per Applicazioni Domotiche Multidispositivo” (2014); “Studio di fattibilità finalizzato allo Sviluppo di una Vetrina 3D basata sulla Realtà Aumentata” (2014); “La gestione dell’informazione nello sviluppo di applicazioni software” (2013-2014); “Studio, Progettazione, Prototipizzazione e Sperimentazione di Tecniche per la Gestione di Identità Federate e Tecniche per la Gestione Semantica dei Dati” (2012); “Sistemi Informativi Avanzati e Tecnologie Del Software” (2012-2013);

“Realtà Aumentata per Contenuti Culturali-Archeologici su Smartphone” (2010-2011); “Metodi per la valutazione sperimentale di tecnologie e applicazioni software” (2011-2012); “Sistemi di Recommendation a Supporto dello Sviluppo di Sistemi Software e Applicazioni” (2010-2011); “Metodi e Strumenti per lo Sviluppo di Sistemi Software e Applicazioni” (2009-2011); “Metodi e Strumenti per il Lavoro Cooperativo” (2008-2009); “Svolgimento di attività di ricerca per la realizzazione prototipale, sperimentazione e valutazione di soluzioni innovative collegate al progetto Clickworld 2 (Architettura Multiagente per Matchmaking e Recommendation)” (2008); Studio, definizione, realizzazione prototipale, sperimentazione e valutazione di soluzioni innovative per la cooperazione applicativa in ambiente di e-government, nell’ambito del progetto nazionale denominato ICAR” (2007); “Ingegneria del Software e Studi Empirici” (2007); “METAMORPHOS (MEthods and Tools for migrAting software systeMs towards web and service Oriented aRchitectures: exPerimental evaluation, usability, and technology tranSfer), finanziato dal MiUR (Ministero dell’Università e della Ricerca)” (2006-2007); “Definizione ed implementazione di una metodologia per la decomposizione, reingegnerizzazione e wrapping di sistemi legacy” (2006); “Sistemi Visuali ed Interattivi” (2006-2007); “Middleware per servizi evoluti su sistemi distribuiti Wired-Wireless di grandi dimensioni” (2005-2006); “Tracciabilità tra artefatti software in processi evolutivi” (2004-2005); “Un Geo-data Warehouse per la cooperazione fra Enti Territoriali” (2002-2003); “Cartografia Spaziale mediante interferometria SAR (CASPIIS)” (2001).

Review Activities for Industrial, Academic, and Public Projects

- He has been several times members of the review board for the National Scientific Research Program. Being prof. Giuseppe Scanniello is in the Register of Expert Peer Reviewers for Italian Scientific Evaluation (REPRISE MiUR).
- He has been a reviewer for the project “Agenda Digitale Regione Basilicata” (about 18M€).
- He has been a reviewer for the project “UNESCO Matera 2017” in the context of the European Capital of the Culture initiatives.
- He has been a reviewer for the project “Cagliari 2020” PON/FESR MiUR (about 20M€).
- He has been a member of the committee for several academic competitions in Italy; from the selection of Ph.D. students to research fellows/scholarships and research assistants.
- He has been a member of the review board of many of Ph.D. thesis of students from several National University: University of Bari, University of Salerno, University of Molise, University of Naples, University of Sannio and so on.
- He has been a member of the thesis defense board of many of Ph.D. students from some National University: University of Aquila, University of Basilicata, and University of Naples.

Academic Courses

- Software Engineering of the Bachelor Program in Computer Science at the University of Basilicata (from 2006 until 2012, 2017, from 2018 to 2021)
- Advanced Software Engineering of the Master Program in Computer Engineering at the University of Basilicata (from 2012 until 2014 and from 2016 to 2021)
- Informative Systems of the Master Program in Computer Engineering at the University of Basilicata (from 2015 to 2018)
- Computer Networks of the Bachelor Program in Computer Science at the University of Basilicata (from 2016 to 2019 and 2021)
- Algorithms and Data Structures of the Bachelor Program in Computer Science at the University of Basilicata (from 2004 until 2013)
- Operating Systems of the Bachelor Program in Computer Science at the University of Basilicata (2014-2015)

Students’ Advising

- Prof. Giuseppe Scanniello has been the promotor of the following Ph.D. Students: Simone Romano, Maria Caulo, and Carmen Coviello.
- He advised or co-advised more than 100 Students of the Bachelor and Master programs at the University of Basilicata and at the University of Salerno.

Competition

Member of the recruiting committee at University of Bari “Aldo Moro”, RTD-A, art. 24, paragraph 3, letter a) of the law 30.12.2010, n. 240, at the Department of , competition sector: 01/B1 INFORMATICA, scientific disciplinary sector: INF/01 INFORMATICA - Rector’s Decree n. 16 of June 20th, 2018.

Member of the recruiting committee at University of Naples, Federico II, RTD-A, art. 24, paragraph 3, letter a) of the law 30.12.2010, n. 240, at the Department of Physic "E. Pancini", competition sector: 01/B1 INFORMATICA, scientific disciplinary sector: INF/01 INFORMATICA- Rector's Decree n. 4497 of November 12th, 2018.

Member of the recruiting committee at University of Naples, Federico II, RTD-A, art. 24, paragraph 3, letter a) of the law 30.12.2010, n. 240, at the Department of Physic "E. Pancini", competition sector: 01/B1 INFORMATICA, scientific disciplinary sector: INF/01 INFORMATICA- Rector's Decree n. 2017/3500 of October 13th, 2017.

Member of the committees for the admission exam to PhD, Course XXXIII, Rector's Decree n. 454 of July 5th, 2017.

Member of the recruiting committee at University of Genova RTD-A, art. 24, paragraph 3, letter a) of the law 30.12.2010, n. 240, at the Department of Computer Science, Bioengineering, Robotics and Systems Engineering (DIBRIS), competition sector: 01 / B1 INFORMATICA, scientific disciplinary sector: INF/01 INFORMATICA- Rector's Decree n. 3647 of October 10th, 2016.

Member of the committees for the admission exam to PhD, Course XXX, Rector's Decree 914, September 12nd, 2014.

Prof. Giuseppe Scanniello has been in the board of: University scholarships, technicians for National Institutions and University (e.g., ARPAB, University of Basilicata) and tenders for several institutions (MiUR, Province of Matera, Basilicata Region, University of Salerno, and so on).

Member of the Board for Doctoral Final Defence

University of Salerno, Italy, Course: XXX, Rector's Decree n.5231 – 261 of February 16th, 2021.

University of Bari, Italy, Course: XXXIII, Rector's Decree n. 487 of February 15th, 2020.

University of Salento, Italy, Course: XXXI, Rector's Decree n. 98411 of May 15th, 2019.

University of Aquila, Italy, Course XXIX and XXX, Rector's Decree n. 449 - 19673 of May 2nd, 2018.

Doctoral Board

University of SALENTO, Italy
Title: "MATEMATICA E INFORMATICA"
Academic year: 2020/2021 - Course: XXXVI - Duration: 3 years

University of SALENTO, Italy
Title: "MATEMATICA E INFORMATICA"
Academic year: 2019/20 - Course: XXXV - Duration: 3 years

University of SALENTO, Italy
Title: "MATEMATICA E INFORMATICA"
Academic year: 2018/19 - Course: XXXIV - Duration: 3 years

University of SALENTO, Italy
Title: "MATEMATICA E INFORMATICA"
Academic year: 2017/18 - Course: XXXIII- Duration: 3 years

University of SALENTO, Italy
Title: "MATEMATICA E INFORMATICA"
Academic year: 2016/17 - Course: XXXII - Duration: 3 years

University of SALENTO, Italy
Title: "MATEMATICA E INFORMATICA"
Academic year: 2015/16 - Course: XXXI - Duration: 3 years

University of SALENTO, Italy
Title: "MATEMATICA E INFORMATICA"
Academic year: 2014/15 - Course: XXX - Duration: 3 years

University of SALENTO, Italy
Title: "MATEMATICA E INFORMATICA"
Academic year: 2013 - Course: XXIX - Duration: 3 years

University of BASILICATA
Title: "DOTTORATO INTERNAZIONALE "PITAGORA DI SAMO/INTERNATIONAL DOCTORAL SEMINAR "PYTHAGORAS OF SAMOS""
Academic year: 2012 - Course: XXVIII - Duration: 3 years

University of BASILICATA
Title: "MATEMATICA E INFORMATICA "PITAGORA DI SAMO" /INTERNATIONAL DOCTORAL SEMINAR "PYTHAGORAS OF SAMOS""
Academic year: 2011 - Course: XXVII - Duration: 3 years

University of SALERNO
Title: "SCIENZE E TECNOLOGIE DELL'INFORMAZIONE, DEI SISTEMI COMPLESSI E DELL'AMBIENTE"
Academic year: 2011 - Course: XXVII - Duration: 3 years

University of SALERNO
Title: "SCIENZE E TECNOLOGIE DELL'INFORMAZIONE, DEI SISTEMI COMPLESSI E DELL'AMBIENTE"
Academic year: 2010 - Course: XXVI - Duration: 3 years

University of SALERNO
Title: "SCIENZE MATEMATICHE, FISICHE E INFORMATICHE"
Academic year: 2009 - Course: XXV - Duration: 3 years

University of BASILICATA
Title: "MATEMATICA APPLICATA ED INFORMATICA"
Academic year: 2007 - Course: XXIII - Duration: 3 years

Related Didactic Activities

Prof. Giuseppe Scanniello from 2001 has been a lecturer for many courses aimed at improving the professional qualification of learners in the field of the computer programming and ICT, in general. A (short) list of these courses follows: "Ricerca di lavoro on-line e preparazione del curriculum" SCHOLA Project at the University of Salerno; "Introduzione alla Programmazione" POR Campania 2000/2006; "Architetture per il Mobile Computing" METODA S.p.A.; "Ricerca di lavoro su web e banche dati" Centro d'Ateneo per l'Orientamento ed il Tutorato (CAOT) at the University of Salerno; "Web e multimedia" POR Campania 2000/2006; "Sistemi informativi su Web 1" POR Campania 2000/2006; "Sistemi informativi su Web 2" POR Campania 2000/2006; "Introduzione alla Programmazione in Java" Department of Cultural Heritage at the University of Salerno; "Web Engineering e Web Mining" First Project of MiUR; "Programmazione in Java" ADECCO; "Recupero capacità linguistico/espressive con uso sistematico del laboratorio multimediale" at the "Leonardo Da Vinci" Institute of Sapri (Salerno).

Invited Talks

- "Assessing the Effect of Screen Mockups on the Comprehension of Functional Requirements" - Universitat Politècnica de València, Valencia, Spain.
- "Assessing the Effectiveness of Sequence Diagrams in the Comprehension of Functional Requirements" - Universitat Politècnica de València, Valencia, Spain.
- "Unreachable Methods" - University of Oulu, Finland.
- "Short Research/Traveling Stories" - University of Oulu, Finland.
- "On the Effect of UML-Based Models on Source-Code Comprehensibility" - Free University of Bozen, Italy.
- "Source Code Textual Information in Software Evolution Practice: Does It Matter?" - l'Univeristà Federico II di Napoli, Italy.
- "Experimental Evaluation of Legacy System Migration Technologies" University of Salerno, Italy.
- "MELIS: An Eclipse Based Environment for the Migration of Legacy Systems to the Web" - International School on Software Engineering, University of Salerno, Italy.
- "Identifying Cloned Patterns in Web Applications" - International School on Software Engineering, University of Salerno, Italy.

Short Invited Visiting Periods

- University of Oulu, Finlandia (September/October 2016).
- Universitat Politècnica de València, Valencia, Spain (November 2016)

Ph.D. Thesis

- [T1] G. Scanniello "Methods and Tools for E-Learning Processes", Promotors: prof. Gennaro Costagliola and prof. Andrea De Lucia.

International Journal Papers (with review)

- [R1] S. Romano, D. Fucci, G. Scanniello, M. T. Baldassarre, B. Turhan, N. Juristo "On Researcher Bias in Software Engineering Experiments" In International Journal of Systems and Software, (to appear)
- [R2] B. Kitchenham, L. Madeyski, G. Scanniello, and C. Gravino "The Importance of the Correlation in Crossover Experiments", In IEEE Transactions in Software Engineering, (to appear).
- [R3] M. T. Baldassarre, D. Caivano, D. Fucci, N. Juristo, S. Romano, G. Scanniello, and B. Turhan: "Studying Test-Driven Development and its Retainment Over a Six-month Time Span" In International Journal of Systems and Software, 10.1016/j.jss.2021.110937, Vo. 176, No. 110937, June 2021, pp.
- [R4] Adrian Santos, Sira Vegas, Oscar Dieste, Fernando Uyaguari, Aysee Tosun, Davide Fucci, Burak Turhan, Giuseppe Scanniello, Simone Romano, Itir Karac, Marco Kuhrmann, Vladimir Mandic, Robert Ramac, Dietmar Pfahl, Christian Engblom, Jarno Kyykka, Kerli Rungi, Carolina Palomeque, Jaroslav Spisak, Markku Oivo, Natalia Juristo: "A Family of Experiments on Test-Driven Development" In International Journal on Empirical Software Engineering, Springer, 2018, 10.1007/s10664-020-09895-8, Vo. 26, No 3, pp. 26-42.
- [R5] C. Politowski; F. Khomh; S. Romano; G. Scanniello; F. Petrillo; Y.G. Gueheneuc; and A. Maiga: "A Large-Scale Empirical Study of the Impact of Spaghetti Code and Blob Anti-patterns on Program Comprehension" In International Journal on Information & Software Technology, Elsevier, doi.org/10.1016/j.infsof.2020.106278, Vo. 122, June 2020,
- [R6] C. Coviello, S. Romano, G. Scanniello, A. Marchetto, A. Corazza, and G. Antoniol: "Adequate vs. Inadequate Test Suite Reduction Approaches" In International Journal on Information & Software Technology, Elsevier, 2020, doi.org/10.1016/j.infsof.2019.106224, Vo.119.
- [R7] S. Romano, N. Capece, U. Erra, G. Scanniello, and M. Lanza: "On the Use of Virtual Reality in Software Visualization: The Case of the City Metaphor" In International Journal on Information & Software Technology, Elsevier, doi.org/10.1016/j.infsof.2019.06.007, Vo. 114, pp. 92-106.
- [R8] S. Romano, N. Capece, U. Erra, G. Scanniello, and M. Lanza: "The city metaphor in software visualization: feelings, emotions, and thinking" In International Journal on Multimedia Tools and Applications, Springer, 10.1007/s11042-019-07748-1, 2019, Vo.78, No. 23, pp. 33113-33149.
- [R9] S. Romano, C. Vendome, G. Scanniello, and D. Poshyvanyk: "A Multi-study Investigation into Dead Code" In IEEE Transactions on Software Engineering, IEEE, 10.1109/TSE.2018.2842781, 2020, Vo. 46, No. 1, pp. 71-99.
- [R10] D. Fucci, G. Scanniello, S. Romano, and Natalia Juristo: "Need for Sleep: The Impact of a Night of Sleep Deprivation on Novice Developers' Performance" In IEEE Transactions on Software Engineering, IEEE, 10.1109/TSE.2018.2834900, 2020, Vo. 46, No. 1, pp. 1-19.
- [R11] S. Romano, G. Scanniello, G. Antoniol, and A. Marchetto: "SPIRITuS: A SimPLe Information Retrieval regression Test Selection approach" In International Journal on Information & Software Technology, Elsevier, doi: 10.1016/j.infsof.2018.03.004, 2018, Vol. 99, pp. 62-80.
- [R12] U. Erra, G. Scanniello, and V. Colonnese: "Exploring the effectiveness of an Augmented Reality Dressing Room", In International Journal on Multimedia Tools and Applications, Springer, doi.org/10.1007/s11042-018-5758-2, 2018, Vo.77, No. 19, pp. 25077-25107.
- [R13] G. Scanniello, C. Gravino, M. Genero, J. A. Cruz-Lemus, G. Tortora, M. Risi, and G. Doderò: "Do Software Models Based on the UML Aid in Source-Code Comprehensibility? Aggregating Evidence from 12 Controlled Experiments", In International Journal on Empirical Software Engineering, Springer, 2018, doi.org/10.1007/s1066, Vo. 23, No5, pp. 2279-2322. (Scopus ID= 2-s2.0-85045073158)
- [R14] Y. Zhang, D. Lo, X. Xia, G. Scanniello, T.-D. B. Le; and J. Sun: "Fusing Multi-Abstraction Vector Space Models for Concern Localization" In International Journal on Empirical Software Engineering, Springer, 2018, doi: 10.1007/s10664-017-9585-2, Vo. 23, No.4, pp. 2279-2322.
- [R15] A. Marchetto, G. Scanniello, and A. Susi: "Combining Code and Requirements Coverage with Execution Cost for Test Suite Reduction" In IEEE Transactions on Software Engineering, IEEE, doi: 10.1109/TSE.2017.2777831, Vo. 45, No. 4, pp. 363-390.

- [R16] G. Scanniello, M. Risi, P. Tramontana, and S. Romano: "Fixing Faults in C and Java Source Code: Abbreviated vs. Full-Word Identifier Names" In *ACM Transactions on Software Engineering and Methodology*, ACM, doi: 10.1145/3104029, Vol. 26 No. 2, July 2017, pp. 6:1-6:43.
- [R17] S. Romano, D. Fucci, G. Scanniello, B. Turhan, and N. Juristo: "Findings from a Multi-method Study on Test-driven Development," In *International Journal on Information & Software Technology*, Elsevier, doi: <http://dx.doi.org/10.1016/j.infsof.2017.03.010>, Vol. 89, pp. 64-77.
- [R18] Anna Corazza, Valerio Maggio, and Giuseppe Scanniello: "Coherence of Comments and Method Implementations: A Dataset and an Empirical Investigation", In *Software Quality Journal*, Springer, doi: 10.1007/s11219-016-9347-1, Vol. 26, No 2, June 2018, pp. 751-777.
- [R19] R. Francese, M. Risi, G. Scanniello, and G. Tortora: "Proposing and Assessing a Software Visualization Approach Based on Polymetric Views" In *International Journal of Visual Languages & Computing*, Elsevier, doi: 10.1016/j.jvlc.2016.05.001, 2016, Vol 34-35, pp. 11-24.
- [R20] M. Torchiano, G. Scanniello, F. Ricca, G. Reggio, and M. Leotta: "Do UML Object Diagrams Affect Design Comprehensibility? Results from a Family of Four Controlled Experiments", In *International Journal of Visual Languages & Computing*, Elsevier, DOI: [doi.org/10.1016/j.jvlc.2017.06.002](http://dx.doi.org/10.1016/j.jvlc.2017.06.002), Vol 41, August, 2017, pp. 10–21.
- [R21] A. Marchetto, M. M. Islam, W. Asghar, A. Susi, and G. Scanniello: "A Multi-Objective Technique to Prioritize Test Cases" On *Transactions on Software Engineering*, IEEE, doi: [doi.ieeecomputersociety.org/10.1109/TSE.2015.2510633](http://dx.doi.org/10.1109/TSE.2015.2510633), Vo. 40, No. 10, 2016, pp. 918-940.
- [R22] R. Francese, C. Gravino, M. Risi, G. Scanniello, and G. Tortora: "Using Project-Based-Learning in a Mobile Application Development Course: An Experience Report" In *International Journal of Visual Languages & Computing*, Elsevier, doi:10.1016/j.jvlc.2015.10.019, 2015, Vol. 31, pp. 196-205.
- [R23] G. Scanniello, C. Gravino, M. Risi, G. Tortora, and G. Dodero: "Documenting Design-Pattern Instances: A Family of Experiments on Source Code Comprehensibility" In *ACM Transactions on Software Engineering and Methodology*, ACM, DOI: dx.doi.org/10.1145/2699696, 2015, Vol. 24, No. 3, Article 14, pp. 14:1-14:35.
- [R24] A. Corazza, S. Di Martino, V. Maggio, and G. Scanniello: "Weighing Lexical Information for Software Clustering in the Context of Architecture Recovery", In *International Journal on Empirical Software Engineering*, Springer, DOI:10.1007/s10664-014-9347-3, 2016, Vol. 21 No. 1, pp. 72-103.
- [R25] G. Scanniello, A. Marcus, and D. Pascale: "Link Analysis Algorithms for Static Concept Location: An Empirical Assessment" In *International Journal on Empirical Software Engineering*, DOI: 10.1007/s10664-014-9327-7, Springer, Vol. 20, No. 6, 2015 pp 1666–1720.
- [R26] G. Scanniello, U. Erra, G. Caggianese, and C. Gravino: "On the Effect of Exploiting GPUs for a More Eco-sustainable Lease of Life" in *International Journal of Software Engineering and Knowledge Engineering*, World Scientific Publishing Company, DOI: 10.1142/S0218194015500023, Vol. 25, No. 1, 2015, pp. 169-195.
- [R27] G. Reggio, F. Ricca, G. Scanniello, F. Di Cerbo, and G. Dodero: "On the Comprehension of Workflows Modeled with a Precise Style: Results from a Family of Controlled Experiments" In *Journal of Software and Systems Modeling*, Springer, DOI: 10.1007/s10270-013-0386-9, *Software and System Modeling*, Vol. 14, No. 4, 2015, pp. 1481-1504.
- [R28] J. Gonzalez-Huerta, E. Insfran¹, S. Abrahão, and G. Scanniello: "Validating a Model-Driven Software Architecture Evaluation and Improvement Method: A Family of Experiments" In *International Journal on Information & Software Technology*, Elsevier, DOI:10.1016/j.infsof.2014.05.018, Vol. 57, 2015, pp. 405-429.
- [R29] C. Gravino, G. Scanniello, and G. Tortora: "Source Code Comprehension Tasks Supported by UML Design Models: Results from a Controlled Experiment and a Differentiated Replication" In *International Journal of Visual Languages & Computing*, Elsevier, DOI: dx.doi.org/10.1016/j.jvlc.2014.12.004, Vol. 28, No. 01, 2015, pp. 23-38.
- [R30] F. Ricca, G. Scanniello, M. Torchiano, G. Reggio, and E. Astesiano: "Assessing the Effect of Screen Mockups on the Comprehension of Functional Requirements" In *ACM Transactions on Software Engineering and Methodology*, ACM, DOI: 10.1145/2629457, Vol. 24, No. 1, 2014, pp 1:1--1:38.
- [R31] L. Mazzeo and G. Scanniello: "A Text Retrieval Approach to Recover Links among E-Mails and Source Code Classes" In *International Journal On Advances in Software*, Vol. 7, No. 1&2, 2014.
- [R32] P. Lago, R. Kazman, N. Meyer, M. Morisio, H. Müller, P. Paulisch, and G. Scanniello "Leveraging "energy efficiency to software users". in *ACM SIGSOFT Software Engineering Notes*, DOI: 10.1145/2557833.2557859, Vol. 39, No. 1, 2014, pp. 36-38.
- [R33] Lucia, D. Lo, G. Scanniello, A. Marchetto, N. Ali, and C. McMillan: "Leveraging machine learning and information retrieval techniques in software evolution tasks. In *ACM SIGSOFT Software Engineering Notes*, DOI: 10.1145/2557833.2560584, Vol. 39, No. 1, 2014, pp. 1-2.
- [R34] G. Scanniello and U. Erra: "Distributed Modeling of Use Case Diagrams with a Method Based on Think-Pair-Square: Results from Two Controlled Experiments," In *International Journal of Visual Languages & Computing*, Elsevier, DOI: dx.doi.org/10.1016/j.jvlc.2014.03.002, Vol. 25, No. 4, pp. 494-517.

- [R35] G. Scanniello, C. Gravino, M. Genero, J. A. Cruz-Lemus, and G. Tortora: "On the Impact of UML Analysis Models on Source Code Comprehensibility and Modifiability". In *Transactions on Software Engineering and Methodology*, ACM, DOI: [dx.doi.org/10.1145/2591912](https://doi.org/10.1145/2591912), Vol. 23, No. 2, Article 13, 2014, pp. 13:1, 13:26.
- [R36] D. Distante, M. Risi, and G. Scanniello: "Enhancing Navigability in Websites Built Using Web Content Management Systems" In *International Journal of Software Engineering and Knowledge Engineering*, World Scientific Press, DOI: [10.1142/S0218194014500193](https://doi.org/10.1142/S0218194014500193), Vol. 24, No. 03, 2014.
- [R37] G. Scanniello, F. Fasano, A. De Lucia, and G. Tortora: "Does Software Error/Defect Identification Matter in the Italian Industry?" In *IET Software*, ISSN 1751-8806 DOI: [10.1049/iet-sen.2011.0170](https://doi.org/10.1049/iet-sen.2011.0170), Vol. 7, No. 2, April, 2013, pp. 76 – 84.
- [R38] P. Lago, R. Kazman, N. Meyer, M. Morisio, H. Müller, P. Paulisch, and G. Scanniello: "Exploring initial challenges for green software engineering: summary of the first GREENS workshop, at ICSE 2012", In *Software Engineering Notes*, ACM, pp. 3, 2013, Vol. 38, ISSN: 0163-5948, DOI:[10.1145/2413038.2413062](https://doi.org/10.1145/2413038.2413062), 2013, pp. 31-33.
- [R39] S. Abrahão, C. Gravino, E. Insfran, G. Scanniello, and G. Tortora: "Assessing the Effectiveness of Sequence Diagrams in the Comprehension of Functional Requirements: Results from a Family of Five Experiments" In *Transactions on Software Engineering*, DOI: [10.1109/TSE.2012.27](https://doi.org/10.1109/TSE.2012.27), Vol. 39, No. 3, March 2013, pp. 327-342.
- [R40] M. Risi, G. Scanniello, and G. Tortora: "Using Fold-in and Fold-out in the Architecture Recovery of Software Systems" In *Formal Aspects of Computing (Applicable Formal Methods)*, Springer Press, Vol. 24, No. 3, DOI: [10.1007/s00165-011-0199-y](https://doi.org/10.1007/s00165-011-0199-y), 2012, pp. 307-330
- [R41] A. De Lucia, F. Fasano, G. Scanniello, and G. Tortora: "Improving Artefact Quality Management in ADAMS with Distributed Inspection" In *IET Software*, Vol. 5, No. 6, 2011, DOI: [10.1049/iet-sen.2010.0108](https://doi.org/10.1049/iet-sen.2010.0108), pp. 510-527.
- [R42] G. Scanniello, A. D'Amico, C. D'Amico, and T. D'Amico: "Architectural Layer Recovery for Software System Understanding and Evolution" In *Software Practice and Experience*, John Wiley & Sons, September 2010, Vol. 40, No. 10, DOI: [10.1002/spe.988](https://doi.org/10.1002/spe.988), pp. 897-916.
- [R43] U. Erra and G. Scanniello: "Assessing Communication Media Richness in Requirements Negotiation" In *IET Software*, 2010, Vol. 4, No. 2, DOI:[10.1049/iet-sen.2009.0052](https://doi.org/10.1049/iet-sen.2009.0052), pp. 134–148.
- [R44] M. Giordano, G. Polese, G. Scanniello, and G. Tortora: "A System For Visual Role-Based Policy Modelling" In *International Journal of Visual Languages & Computing*, Vol. 20, No. 1, February 2010, Elsevier, DOI:[10.1016/j.jvlc.2009.11.002](https://doi.org/10.1016/j.jvlc.2009.11.002), pp. 41-64.
- [R45] G. Scanniello, D. Distante, and M. Risi: "An Approach and an Eclipse Based Environment for Enhancing the Navigation Structure of Web Sites" In *International Journal on Software Tools for Technology Transfer*, Springer Press, Vol.11, No.6, December, 2009, DOI: [1007/s10009-009-0125-2](https://doi.org/10.1007/s10009-009-0125-2), pp. 419-515.
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My profile on Google Scholar [2021/07/02]: h-index 28 (22 in the past 5 years), with 2959 citations and i10-index 99 (65 in the past 5 years).

My profile on Scopus [2021/07/02]: h-index 21, with 1666.

My profile on ResearchGate [2021/07/02]: RG Score 30.29 (it is higher than 87.5% of all ResearchGate members' scores), h-index 24.

SALERNO, Italy
(2021/07/29)

