

PERSONAL INFORMATION**Danilo Caivano**

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🌐 <https://serlab.di.uniba.it/people/danilo-caivano/>

Male | 20/07/1973 | Italia

Enterprise	University	EPR
<input checked="" type="checkbox"/> Management Level	<input checked="" type="checkbox"/> Full professor	<input type="checkbox"/> Research Director and 1st level Technologist / First Researcher and 2nd level Technologist
<input type="checkbox"/> Mid-Management Level	<input type="checkbox"/> Associate Professor	<input type="checkbox"/> Level III Researcher and Technologist
<input type="checkbox"/> Employee / worker level	<input type="checkbox"/> Researcher and Technologist of IV, V, VI and VII level / Technical collaborator	<input type="checkbox"/> Researcher and Technologist of IV, V, VI and VII level / Technical collaborator

WORK EXPERIENCE

(May 2021 – today)

Full Professor SSD ING-INF/05

Department of Informatics – University of Bari (www.di.uniba.it)

- Research Themes:
 - Process & Project Management
 - Application Security
 - Secure Project Management
 - Human Factors in Software Engineering
 - Quantum Software Engineering
 - Quantum Security
- teaching activities:
 - Software Engineering
 - Cybersecurity
 - Secure Software Engineering

Business or sector **University**

(Jun 2020 – today)

Vice President of Apulia Informatic District

Apulia Informatic District – (<https://www.distrettoinformatica.it/>)

The District is an association of organizations operating in Puglia in the field of research, development and production of Information Technology technologies, products and services. The District is made up of about one hundred actors: Apulian IT companies, all the Apulian universities (University of Bari, Polytechnic of Bari, University of Foggia, University of Salento), associations (Confindustria, Confapi, Confartigianato, Confcooperative)

Business or sector **Information and Communication Technology**

(Feb 2020 – today)

Chief Executive Officer SER&Practices s.r.l.

SER&Practices s.r.l. – Via Orabona n.4, 70125 – Bari (www.serandp.com)

- Activities:
 - Software Process & Product Quality
 - Software System Governance & Security
 - Software System Design & Development
 - Project Management

Business or sector **Information and Communication Technology**

(Nov 2017 – today)

Head of SERLAB Research Group

Software Engineering Research Laboratory - Department of Informatics – University of Bari
(www.serlab.di.uniba.it)

The Software Engineering Research LABORatory (SERLAB) is a research laboratory of the Department of Informatics of the University of Bari directed by Prof. Danilo Caivano. it includes 1 full professor, 2 associate professors, 3 researchers and 3 PhDs.

- Research Themes:
 - Process & Project Management
 - Process & Product Quality
 - Software Engineering for Health Care
 - Security Engineering

Business or sector **University**

EDUCATION AND TRAINING

- (2004) **PhD in Software Engineering**
Department of Informatics – University of Bari (Italy)
 - Research Theme: Statistical Process Control for Software
- (2000) **Laurea Degree in Computer Science**
Department of Informatics – University of Bari (Italy)

PERSONAL SKILLS

Mother tongue(s) Italian
Other language(s) English

ADDITIONAL INFORMATION

Quantum related information *Danilo Caivano is Scientific Director of a researcher (type A) on the topic "Quantum Software Engineering" and tutor of a PhD student on the topic "Quantum Security".*

On behalf of Department of Informatics – University of Bari, he is contact point of the aQuantum Network (<https://www.aquantum.es/>).

He is one of the first endorser of "The Talavera Manifesto for Quantum Software Engineering and Programming"

Publications

Danilo Caivano is (co)author of more than 120 publications indexed by Scopus. Only the journal publications are listed here:

1. *Baldassarre, M.T., Caivano, D., Fucci, D., Romano, S., Scanniello, G., Affective reactions and test-driven development: Results from three experiments and a survey, (2022) Journal of Systems and Software, 185, art. no. 111154, DOI: 10.1016/j.jss.2021.111154*
2. *Baldassarre, M.T., Caivano, D., Fucci, D., Juristo, N., Romano, S., Scanniello, G., Turhan, B., Studying test-driven development and its retainment over a six-month time span, (2021) Journal of Systems and Software, 176, art. no. 110937, DOI: 10.1016/j.jss.2021.110937*
3. *Pérez-Castillo, R., Caivano, D., Ruiz, F., Piattini, M., ArchiRev—Reverse engineering of information systems toward ArchiMate models. An industrial case study (2021) Journal of Software: Evolution and Process, 33 (2), art. no. e2314, DOI: 10.1002/smr.2314*
4. *Baldassarre M.T., Barletta V.S., Caivano D., Scalera M., (2020), "Integrating security and privacy in software development", SOFTWARE QUALITY JOURNAL, DOI: 10.1007/s11219-020-09501-6*
5. *Buono, P., Caivano, D., Costabile, M.F., Desolda, G., Lanzilotti, R., (2020), "Towards the detection of UX Smells: The support of visualizations", IEEE ACCESS, 8, art. no. 8939398,*

- pp. 6901-6914, DOI: 10.1109/ACCESS.2019.2961768
6. Barletta, V.S., Caivano, D., Nannavecchia, A., Scalera, M., (2020), "A Kohonen SOM architecture for intrusion detection on in-vehicle communication networks", *APPLIED SCIENCES (Switzerland)*, 10 (15), art. no. 5062, DOI: 10.3390/app10155062
 7. Dimauro, G., Caivano, D., Di Pilato, P., Dipalma, A., Camporeale, M.G., (2020), "A systematic mapping study on research in anemia assessment with non-invasive devices", *APPLIED SCIENCES (Switzerland)*, 10 (14), art. no. 4804, DOI: 10.3390/app10144804
 8. Barletta, V.S., Caivano, D., Nannavecchia, A., Scalera, M., (2020), "Intrusion detection for in-vehicle communication networks: An unsupervised kohonen SOM approach", *FUTURE INTERNET*, 12 (7), art. no. 119, DOI: 10.3390/FI12070119
 9. Ardito, C., Caivano, D., Colizzi, L., Dimauro, G., Verardi, L., (2020), "Design and execution of integrated clinical pathway: A simplified meta-model and associated methodology", *INFORMATION (Switzerland)*, 11 (7), art. no. 362, DOI: 10.3390/info11070362
 10. V.S. Barletta, D. Caivano, G. Dimauro, A. Nannavecchia, M. Scalera, (2020), "Managing a Smart City Integrated Model through Smart Program Management", *APPLIED SCIENCE (Switzerland)*, 10(2), art. no.714, DOI: 10.3390/app10020714
 11. Dimauro, G., Colagrande, P., Carlucci, R., Ventura, M., Bevilacqua, V., Caivano, D., (2019), *Crisprlearner: A deep learning-based system to predict crispr/cas9 sgma on-target cleavage efficiency*, *ELECTRONICS (Switzerland)*, 8 (12), art. no. 1478, DOI: 10.3390/electronics8121478
 12. Dimauro, G., Guarini, A., Caivano, D., Girardi, F., Pasciolla, C., Iacobazzi, A., (2019), "Detecting clinical signs of anaemia from digital images of the palpebral conjunctiva", *IEEE ACCESS*, 7, art. no. 2932274, pp. 113488-113498, DOI: 10.1109/ACCESS.2019.2932274
 13. Dimauro, G., Caivano, D., Girardi, F., (2018), "A New Method and a Non-Invasive Device to Estimate Anemia Based on Digital Images of the Conjunctiva", *IEEE ACCESS*, Volume 6, pp. 46968-46975, doi: 10.1109/ACCESS.2018.2867110
 14. Caivano, D., Fernández-Ropero, M., Pérez-Castillo, R., Piattini, M., Scalera, M., (2018), "Artifact-based vs Human-Perceived understandability and modifiability of refactored business processes: An experiment", *JOURNAL OF SYSTEMS AND SOFTWARE*, Volume 144, October 2018, pp. 143–164, doi: 10.1016/j.jss.2018.06.026.
 15. Caivano, D., Fogli, D., Lanzilotti, R., Piccinno, A., Cassano, F., (2018), "Supporting end users to control their smart home: design implications from a literature review and an empirical investigation". *JOURNAL OF SYSTEMS AND SOFTWARE*, Volume 144, October 2018, pp. 295-313, doi: 10.1016/j.jss.2018.06.035
 16. Baldassarre, M.T., Caivano, D., Dimauro, G., Gentile, E., Visaggio, G., (2018), "Cloud Computing for Education: A Systematic Mapping Study", *IEEE TRANSACTIONS ON EDUCATION*, Volume 61, Issue 3, pp. 234-244, doi: 10.1109/TE.2018.2796558
 17. Dimauro, G., di Nicola, V., Bevilacqua, V., Caivano, D., Girardi, F., (2017), "Assessment of speech intelligibility in Parkinson's disease using a speech-to-text system", *IEEE ACCESS*, Volume 5, pp. 22199 – 22208, doi: 10.1109/ACCESS.2017.2762475
 18. Fernández-Sáez, A.M., Genero, M., Caivano, D., Chaudron, M.R.V., (2016), "Does the level of detail of UML diagrams affect the maintainability of source code?: a family of experiments", *EMPIRICAL SOFTWARE ENGINEERING*, Volume 21, Issue 1, 1 February 2016, pp. 212-259, doi: 10.1007/s10664-014-9354-4
 19. Fernández-Sáez, A.M., Genero, M., Chaudron, M.R.V., Caivano D., Isabel Ramos, (2015), "Are Forward Designed or Reverse-Engineered UML diagrams more helpful for code maintenance?: A family of experiments", *INFORMATION AND SOFTWARE TECHNOLOGY*, Volume 57, January 2015, pp. 644-663, ISSN 0950-5849, doi: 10.1016/j.infsof.2014.05.014.
 20. Ardito, C., Buono, P., Caivano, D., Costabile, M.F., Lanzilotti, R., Dittrich, Y. (2014). "Human Centered Design in Industry: Lessons from the Trench", *IEEE COMPUTER*, vol. 47, pp. 86-89, ISSN: 0018-9162, doi: 10.1109/MC.2014.355
 21. Pérez-Castillo, R., Caivano, D., Piattini, M. (2014). *Ontology-based similarity applied to business process clustering*. *JOURNAL OF SOFTWARE MAINTENANCE AND EVOLUTION: RESEARCH AND PRACTICE*, ISSN: 2047-7481, doi: 10.1002/smr.1652
 22. Ardito, C., Buono, P., Caivano, D., Costabile, M.F., Lanzilotti, R., (2014), "Investigating and promoting UX practice in industry: An experimental study", *INTERNATIONAL JOURNAL OF HUMAN-COMPUTER STUDIES*, vol. 72 no.6, p.542-551, ISSN: 1071-5819, doi: 10.1016/j.ijhcs.2013.10.004

Bari 2 maggio 2022

In fede
