

Curriculum Vitae et Studiorum

Valentino Santucci

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Summary

Valentino Santucci (Ph.D.) is an Associate Professor of Computer Engineering at the University for Foreigners of Perugia (Italy), where he is the Vice Rector for Technology Transfer from 2021. He received his Ph.D. in Computer Science and Mathematics from the University of Perugia (Italy) in 2012. His main research interests are in the broad areas of Artificial Intelligence and Computational Intelligence. In particular, in the area of Evolutionary Computation, his research focuses on algebraic frameworks for studying combinatorial search spaces and the dynamics of evolutionary algorithms. Other areas of interest include natural language processing and machine learning applications to both e-learning and sustainability issues. He is also an enthusiast of technology-enhanced learning methods. He has authored over fifty scientific publications, organised special sessions and workshops at international conferences, and served as editor and guest editor for WoS/Scopus indexed scientific journals. Finally, he has taught artificial intelligence, computer science and information technology at the University for Foreigners of Perugia, the University of Perugia and the Hong Kong Baptist University.

Academic and Research Positions

- 2023 – now Associate Professor in Computer Engineering at the University for Foreigners of Perugia
- 2021 – now Deputy Rector for Technology Transfer at the University for Foreigners of Perugia, Italy
- 2020 – 2023 Assistant Professor (RTDb) in Computer Engineering at the University for Foreigners of Perugia, Italy
- 2018 – 2020 Assistant Professor (RTDa) in Computer Engineering at the University for Foreigners of Perugia, Italy
- 2012 – 2018 Post-doctoral research fellow at the Department of Mathematics and Computer Science, University of Perugia, Italy
- 2007 – 2008 Research scholarship from "Regione Umbria" at Esebel s.r.l., spinoff of the University of Perugia, Italy

Education

- 2012 PhD degree in Mathematics and Computer Science, University of Perugia, Italy
- 2007 MSc degree in Computer Science, University of Perugia, Italy
- 2005 PGdip in Security of the Information and Communication Technology, University of Perugia
- 2004 BSc degree in Computer Science, University of Perugia, Italy

Visiting Scholar

- 2021 Visiting scholar at Department of Computer Science, University of Basque Country, Spain
- 2020 Visiting scholar at Department of Computer Science, University of Basque Country, Spain
- 2011 Visiting scholar at Department of Computer Science, Hong Kong Baptist University, Hong Kong SAR China

Research Projects

- 2021 – now Member and responsible for the statistical analyses in the context of the FAMI project "COME-IN: Comunicare, Mediare, Includere" (project code: PROG-3439)
- 2021 – now Member of the Erasmus+ project "QUADIC: Quality development of international cooperation and project management" (project code: 609786-EPP-1-2019-1-XK-EPPKA2-CBHE-JP)
- 2020 – now Member of the PRIN project "PHRAME - Phraseological Complexity Measures in Learner Italian" (project code: 20178XXKFY)
- 2019 – 2019 Member of the project "MALT-IT2: Misurare automaticamente il livello dei testi per studenti di italiano L2" funded by "Fondazione Cassa di Risparmio di Perugia"

Journal Editor

- 2021 – now Member of the Editorial Board for scientific journal "Applied Sciences" in the section "Computing and Artificial Intelligence".
- From 2019 Guest editor for several special issues in the scientific journals "Mathematics", "Applied Sciences", "Entropy".

Invited Speaker & Awards

- 2020 Invited keynote speaker at the workshop "ECPERM - Evolutionary Computation for Permutation Problems" held within ACM GECCO 2020
- 2018 Best paper nomination at the conference "PPSN 2018: 15th International Conference on Parallel Problem Solving from Nature"
- 2010 Best paper award at the conference "WSC15: 15th Conference on Soft Computing in Industrial Applications"

Organization of Workshops and Conferences

- 2022 Organizer of the special session "Computational Intelligence for Sustainability" to be held within EvoApplications, part of EvoStar 2023
- 2022 Organizer and chair of the special session "Evolutionary Computation for Permutation Problems" held within IEEE CEC 2022, part of IEEE WCCI 2022
- 2022 Organizer and chair of the special session "Applications of Nature-inspired Computing for Sustainability and Development" held within EvoApplications, part of EvoStar 2022
- 2021 Organizer of the workshop "ECPERM - Evolutionary Computation for Permutation Problems" to be held within ACM GECCO 2021
- 2021 Organizer of the workshop "Adversarial Attack to Smart Infrastructures: detection, countermeasures, resilience" to be held within ICCSA 2021
- 2021 Organizer and chair of the special session "Applications of Nature-inspired Computing for Sustainability and Development" held within EvoApplications, part of EvoStar 2021
- 2019 Organizer and chair of the workshop "ECPERM - Evolutionary Computation for Permutation Problems" held within ACM GECCO 2019
- 2018 Organizer and chair of the special session "Recent Advances in Evolutionary Computation for Permutation Problems" held within IEEE CEC 2018, part of IEEE WCCI 2018
- 2017 Organizer and chair of the special session "Recent Advances in Evolutionary Computation for Permutation Problems" held within IEEE CEC 2017

Selected Publications

- 2022 Santucci V., Baioletti M. "A Fast Randomized Local Search for Low Budget Optimization in Black-Box Permutation Problems". In: Proc. of IEEE WCCI 2022, publisher: IEEE.
- 2021 Santucci V., Baioletti M., Di Bari G. "An improved Memetic Algebraic Differential Evolution for solving the Multidimensional Two-Way Number Partitioning Problem". Expert Systems with Applications, available online from 29 March 2021, publisher: Elsevier
- 2021 Agresta A., Baioletti M., Biscarini C., Milani A., Santucci V. "Evolutionary Algorithms for Roughness Coefficient Estimation in River Flow Analyses". In: Proc. of EvoApplications 2021, publisher: Springer
- 2020 Santucci V., Santarelli F., Forti L., Spina S. "Automatic Classification of Text Complexity". Applied Sciences, vol. 10, no. 20, pp. 7285, publisher: MDPI
- 2020 Santucci V., Baioletti M., Milani A. "An algebraic framework for swarm and evolutionary algorithms in combinatorial optimization". Swarm and Evolutionary Computation, vol. 55, pp. 100673, publisher: Elsevier
- 2020 Santucci V., Ceberio J. "Using pairwise precedences for solving the linear ordering problem". Applied Soft Computing, vol. 87, pp. 105998, publisher: Elsevier
- 2020 Baioletti M., Di Bari G., Milani A., Santucci V. "An Experimental Comparison of Algebraic Crossover Operators for Permutation Problems". Fundamenta Informaticae, vol. 174, no. 3-4, pp. 201-228, publisher: IOS press
- 2019 Baioletti M., Milani A., Santucci V. "Variable neighborhood algebraic Differential Evolution: An application to the Linear Ordering Problem with Cumulative Costs". Information Sciences, vol. 507, pp. 37-52, publisher: Elsevier
- 2019 Santucci V., Baioletti M., Milani A. "Tackling Permutation-based Optimization Problems with an Algebraic Particle Swarm Optimization Algorithm". Fundamenta Informaticae, vol. 167, no. 1-2, pp. 133-158, publisher: IOS press
- 2019 Yeoh J.M., Caraffini F., Homapour E., Santucci V., Milani A. "A Clustering System for Dynamic Data Streams Based on Metaheuristic Optimisation". Mathematics, vol. 7, no. 12, pp. 1229, publisher: MDPI
- 2019 Santucci V., Milani A., Caraffini F. "An Optimisation-Driven Prediction Method for Automated Diagnosis and Prognosis". Mathematics, vol. 7, no. 11, pp. 1051, publisher: MDPI
- 2018 Baioletti M., Milani A., Santucci V. "Learning Bayesian Networks with Algebraic Differential Evolution". In: Proc. of PPSN 2018, publisher: Springer
- 2016 Santucci V., Baioletti M., Milani A. "Algebraic differential evolution algorithm for the permutation flowshop scheduling problem with total flowtime criterion". IEEE Trans. on Evolutionary Computation, vol. 20, no. 5, pp. 682-694, publisher: IEEE press
- 2016 Santucci V., Baioletti M., Milani A. "Solving permutation flowshop scheduling problems with a discrete differential evolution algorithm". AI Communications, vol. 29, no. 2, pp. 269-286, publisher: IOS press