

Europass Curriculum Vitae

Personal information

First name(s) / Surname(s)	Enrico De Santis
Address(es)	Via Eudossiana, 18, 00184 Roma RM
E-mail	
Linkedin Profille	
Nationality	Italian
Desired employment /	ICT
Occupational field	
Work experience 10	СТО
Dates	August 2018 December 2020
	August 2018 – December 2020
Occupation or position held	Chief of Technical Officer
Main activities and responsibilities	Project Management - Artificial Intelligence and Machine Learning
	Text Mining, Natural Language Processing Data Mining, Predictive Maintenance
Name and address of employer	SisterPomos S.r.l Startup Innovativa "Sapienza"
	Viale Battista Bardanzellu, 77Q 00155 Roma
Type of business or sector	Industry 4.0, Technological Innovation
Work ovnorion og O	
Work experience 9	
Dates	24-27 October 2018
Occupation or position held	Trainer
Main activities and responsibilities	Teacher in training course for Eurostat (European Commission) in Machine Learning and Natural
	Language Processing for Social Mining and related Web applications.
Name and address of employer	DEVSTAT
	Av. del Oeste, 26 - First floor 46001 Valencia, Spain
Type of business or sector	Training
Work experience 8	Researcher (Current)
Dates	August 2017 -
Occupation or position held	Researcher in Machine learning and Data Analysis field
	ACEA Smart Grid Project – Condition Based Maintenance Team leaders (Eng. Maurizio Paschero, Eng. Stefano Liotta, Eng. Silvio Alessandroni

Main activities and responsibilities	Research and Ph.D. and Master degree students tutoring							
	- Condition Based Maintenance							
	 Data analytics and data visualization Data mining 							
	 Time series analysis and forecasting Multifractal Analysis for time series 							
	- Business Intelligence							
Name and address of employer	ACEA/Prof Antonello Rizzi "Sapienza" University of Rome							
	Department of Information Engineering, Electronics and Telecommunications (DIET)							
	Via Eudossiana, 18 00184 - Rome - Italy							
Type of business or sector	Research							
Work experience 7								
Dates	July 2016 – June 2017							
Occupation or position held	Post-doctoral fellow at Department of Computer Science, Ryerson University (Toronto, Canada)							
Main activities and responsibilities	 Artificial Intelligence, Machine Learning (Deep Learning), Natural Language Processing, Data Science and Social Network Analysis. 							
	 Ph.D. and Master degree students tutoring Research and development of an advanced Natural Language Processing framework for 							
	Educational Data Mining purpose within the project "A Method for Designing Evidence-based Learning Material" – Private/Public Sector Partnerships (Brain Alliance Canada) - grant:							
	Research Excellence grant (ORF-RE) Ontario.							
	 Subproject: An AI strategy to increase performances in public e-learning environment by Natural Language Processing. 							
	 LEADERSHIP & TEAM MEMBERS" Joseph Siahou, Shore Consulting (Toronto), Managing Director. 							
	 John Evans – Manitoba Department of Education, Instruction, Curriculum and 							
	Assessment Branch, - Manitoba Education and Advanced Learning.							
	- UNIVERSITY PARTNERS							
	 York University – Dr. Nick Cercone, Professor, Electrical Engineering and Computer Science. 							
	 Dr. Sheila Embleton, Vice-President, Academic and Provost. Ryerson University – Alireza Sadeghian, Professor, Computer Science. 							
	 Preparation of teaching material for Machine Learning and computer science courses 							
Name and address of employer	Prof. Alireza Sadeghian Department of Computer Science, Ryerson University							
	245 Church Street, ENG-287							
	Toronto, Ontario Canada							
	M5B 2K							
Type of business or sector	Research							
Work experience 6								
Dates	26-28 June 2017							
Occupation or position held	Trainer							
Main activities and responsibilities	Teacher in training course at Eurostat (European Commission, Luxembourg) in Machine Learning and Natural Language Processing for Social Mining and related Web applications.							
Name and address of employer	HENDYPLAN Luxembourg 10 rue André Duchscher - L-1424 Luxembourg							
Type of business or sector	Training							

Work experience 5						
Dates						
Occupation or position held	Research Assistant					
Main activities and responsibilities	 Research on Artificial Intelligence, Machine Learning and Data Science fields Data mining Time series prediction through Neural networks and Principal Component Analysis algorithms Decision Support Systems Trainer in a seminar series dealing with machine learning applications to real-world problems Master degree students tutoring 					
Name and address of employer	Prof. Alireza Sadeghian Department of Computer Science 245 Church Street, ENG-287 Toronto, Ontario Canada M5B 2K					
Type of business or sector	Research					
Work experience 4						
Dates	May 2011 - September 2011					
Occupation or position held	Internship					
Main activities and responsibilities	Research and Development of Artificial Intelligence and machine learning algorithms					
Name and address of employer	Fondazione Ugo Bordoni - ICT Research Viale del Policlinico, 147 · 06 54801 Rome					
Type of business or sector	Research					
Work experience 3						
Dates	November 2011					
Dates Occupation or position held	November 2011 Technical advisor/Engineer					
Occupation or position held Main activities and responsibilities Name and address of employer	Technical advisor/Engineer Technical advisor at Center of R & D in Adlershof Science and Technology park (Berlin, Germany) Province of Latina					
Occupation or position held Main activities and responsibilities	Technical advisor/Engineer Technical advisor at Center of R & D in Adlershof Science and Technology park (Berlin, Germany)					
Occupation or position held Main activities and responsibilities Name and address of employer	Technical advisor/Engineer Technical advisor at Center of R & D in Adlershof Science and Technology park (Berlin, Germany) Province of Latina					
Occupation or position held Main activities and responsibilities Name and address of employer Type of business or sector	Technical advisor/Engineer Technical advisor at Center of R & D in Adlershof Science and Technology park (Berlin, Germany) Province of Latina					
Occupation or position held Main activities and responsibilities Name and address of employer Type of business or sector Work experience 2 Dates Occupation or position held Main activities and responsibilities	Technical advisor/Engineer Technical advisor at Center of R & D in Adlershof Science and Technology park (Berlin, Germany) Province of Latina Consulting November 2010 Technical advisor/Engineer Technical advisor/Engineer					
Occupation or position held Main activities and responsibilities Name and address of employer Type of business or sector Work experience 2 Dates Occupation or position held Main activities and responsibilities Name and address of employer	Technical advisor/Engineer Technical advisor at Center of R & D in Adlershof Science and Technology park (Berlin, Germany) Province of Latina Consulting November 2010 Technical advisor/Engineer Technical advice at Center of R & D in Adlershof Science and Technology park (Berlin, Germany) Province of Latina					
Occupation or position held Main activities and responsibilities Name and address of employer Type of business or sector Work experience 2 Dates Occupation or position held Main activities and responsibilities Name and address of employer Type of business or sector	Technical advisor/Engineer Technical advisor at Center of R & D in Adlershof Science and Technology park (Berlin, Germany) Province of Latina Consulting November 2010 Technical advisor/Engineer Technical advice at Center of R & D in Adlershof Science and Technology park (Berlin, Germany) Province of Latina					
Occupation or position held Main activities and responsibilities Name and address of employer Type of business or sector Work experience 2 Dates Occupation or position held Main activities and responsibilities Name and address of employer Type of business or sector Work experience 1	Technical advisor/Engineer Technical advisor at Center of R & D in Adlershof Science and Technology park (Berlin, Germany) Province of Latina Consulting November 2010 Technical advisor/Engineer Technical advice at Center of R & D in Adlershof Science and Technology park (Berlin, Germany) Province of Latina Consulting					
Occupation or position held Main activities and responsibilities Name and address of employer Type of business or sector Work experience 2 Dates Occupation or position held Main activities and responsibilities Name and address of employer Type of business or sector Work experience 1 Dates	Technical advisor/Engineer Technical advisor at Center of R & D in Adlershof Science and Technology park (Berlin, Germany) Province of Latina Consulting November 2010 Technical advisor/Engineer Technical advice at Center of R & D in Adlershof Science and Technology park (Berlin, Germany) Province of Latina Consulting September 2008 - November 2008					

Name and address of employer	Economic Observatory Via Monte Grappa, 57,		ent of Managerial Cul	ture Business					
Type of business or sector	Training								
Education And Training 4									
Dates	2012 – 2015/16								
Title of qualification awarded	PhD in Information and Communication Engineering								
Main subjects/occupational	Thesis Titles: Computational Intelligence in Complex Systems with applications to Smart Grids								
Skills covered	Machine Learning, Computational Intelligence, Artificial Intelligence, Neural Networks, Smart Grids, Data Science								
	- Clustering and classification								
	 Dimensionality reduction and data visualization Computational Intelligence and Evolutionary computation 								
	 Computational In Decision Support 		olutionary computation	1					
Name and type of organization	Information Engineering, Electronics and Telecommunications Department (DIET), "Sapienza" University of Rome (Rome, Italy).								
Education And Training 3									
Dates	2009 - 2012								
Title of qualification awarded	Master's Degree in Information and Communication Engineering, vote: 110/110 <i>cum laude</i>								
Main subjects/occupational	Thesis Titles: Genetic Optimization of Control System for Energy Flow Management								
Skills covered	Soft Computing, Computational Intelligence, Stochastic Process, Adaptive filtering, Computer								
Name and type of organization	Programming, ICT, TLC Systems. "Sapienza" University of Rome (Rome, Italy).								
Hame and type of organization	Suplimiza Shiveloky		aly).						
Education And Training 2									
Dates	2002 - 2007								
Title of qualification awarded	Bachelor Degree in Te	Bachelor Degree in Telecommunication Engineering							
Main subjects/occupational	Thesis Titles: MSRP P	Thesis Titles: MSRP Protocol in IM Applications							
Skills covered	Network Technologies (TCP/IP and Internet protocols), Radar Technologies, Advance Signal								
Name and type of organization	Processing, Modulation Techniques, Database, Computer Science. "Sapienza" University of Rome (Rome, Italy)								
Name and type of organization	Suplenza Shiveloky								
Education And Training 1									
Dates	1996 - 2001								
Title of qualification awarded	Liceo Scientifico (High School).								
Name and type of organization	Liceo Scientifico Enrico Fermi (Gaeta, Italy).								
Mother tengue (a)	Italian								
Mother tongue(s)	Italian								
Self-assessment	Understa	andina	Spe	aking	Writing				
European level (*)	Listening	Reading	Spoken interaction	Spoken production	······3				
English	C1	C1	C1	C1	C1				
-					[
Page 4/7 - Curriculum vitae of De Santis Enrico	For more information on Eur © European Union, 2004-20		pass.ceueiop.europa.eu						

French	B1		B1		A2		A2		B1
	(*) Common European Framework of Reference for Languages								
Social skills and competences	 Good ability to adapt to multicultural environments, gained though my work experiences abroad (e.g. Canada); Good communication skills gained through my experience as Trainer, Research Assistant as well as Post-doctoral fellow; Experiences as speaker in several international conferences and training courses; Team spirit. 								
Organisational skills and competences	 Leadership (mentoring MD and Ph.D. students); Sense of organisation (experience in research projects development); Good experience in project or team management (acquired as CTO in SisterPomos, Startup "Sapienza"). Teleworking skill acquired during the stay in Canada as Ph.D. researcher and the collaboration with the partnership of Sapienza University and ACEA in Italy, within the ACEA Smart Grid Project. 								
Technical and Computer skills and competences									
	 Knowledge transfer Technical writing: L. Network Simulation Network Configuratic courses). Terrapk32M (Environ Skills: Data Science Classification, Natura Forecasting, Comple Adaptive Filtering, Int Advanced Statistical (acquired through res and MD thesis) 	aTe: : On ion; onmo e, Da al lar x Sy form Ana	X (acquired durir nnet++; (acquired Cryptography, cy ental modeling ad ata Analysis and nguage processir ystems, Clusterin nation Theory, Ne Ilysis (PCA, SVD	ng M d thr yber Visu ng, E g, S stwo , etc	D and PhD thesis ough seminars, U security (acquired recasting, early wa nalization, Artificia Deep Learning and oft Computing, Fu rk Management, S .), Multifractal Ana	Íniver d thro arning l Intel d Neu uzzy L Smart alysis	ough seminars, g systems) lligence, Machiu aral Network, Ti ogic, Evolution t Grids, Parallel	ne L ime S nary I Cor	earning, Series Computation, , nputation.
Driving licence	European B driving li	cen	ce.						

Additional information

IEEE Student Member; International Neural Network Society member; Brain Alliance, Big Data Research, Analytics, and Information Network Ontario member, National Division Electrical Engineering Researchers member.

Certificate of achievement of the first online course "Introduction to Artificial Intelligence" by Professor Peter Norvig at Stanford university school of engineering, Stanford University, CA 94, USA

Peer reviewed pubblications

- (Conference) E. De Santis, A. Rizzi, A. Sadeghian, A Learning Intelligent System for Classification and Characterization of Localized Faults in Smart Grids, EEE Congress on Evolutionary Computation 2017 Donostia - San Sebastián, Spain proceedings, June 5-8, 2017 [ENG]
- (Journal) E. D. Santis, L. Livi, A. Sadeghian, and A. Rizzi. Modeling and recognition of smart grid faults by a combined approach of dissimilarity learning and one-class classification. Neurocomputing, 170:368 – 383, 2015. ISSN 0925-2312. doi: http://dx.doi.org/10.1016/j.neucom.2015.05.112 [ENG].
- (Book Chapter) E. De Santis, F. Mascioli, A. Sadeghian, and A. Rizzi. A dissimilarity learning approach by evolutionary computation for faults recognition in smart grids. In J. J. Merelo, A. Rosa, J. M. Cadenas, A. Dourado, K. Madani, and J. Filipe, editors, Computational Intelligence, volume 620 of Studies in Computational Intelligence, pages 113–130. Springer International Publishing, 2016. ISBN 978-3-319-26391-5. doi: 10.1007/978-3-319-26393-9 8 [ENG].
- (Journal) F. Bianchi, E. De Santis, A. Rizzi, and A. Sadeghian. Short-term electric load forecasting using echo state networks and PCA decomposition. Access, IEEE, 3:1931–1943, 2015. ISSN 2169-3536. doi: 10.1109/ACCESS.2015.2485943 [ENG].
- (Journal) E De Santis, A Rizzi, A Sadeghian, Hierarchical Genetic Optimization of a Fuzzy Logic System for Energy Flows Management in Microgrids, Applied Soft Computing, Volume 60, 2017, Pages 135-149, ISSN 1568-4946, http://dx.doi.org/10.1016/j.asoc.2017.05.059
- (Conference) E. De Santis, A. Rizzi, A. Sadeghian, and F. Mascioli. Genetic optimization of a fuzzy control system for energy flow management in micro-grids. In IFSA World Congress and NAFIPS Annual Meeting (IFSA/NAFIPS), 2013 Joint, pages 418– 423, June 2013. doi: 10.1109/IFSA-NAFIPS.2013.6608437 [ENG].
- (Conference) E. De Santis, L. Livi, F. Mascioli, A. Sadeghian, and A. Rizzi. Fault recognition in smart grids by a one-class classification approach. In Neural Networks (IJCNN), 2014 International Joint Conference on, pages 1949–1956, July 2014. doi: 10.1109/IJCNN.2014.6889668 [ENG].
- (Conference) E. D. Santis, G. Distante, F. M. F. Mascioli, A. Sadeghian, and A. Rizzi. Evolutionary optimization of a one-class classification system for faults recognition in smart grids. In Proceedings of the International Conference on Evolutionary Computation Theory and Applications (IJCCI 2014), pages 95–103, 2014. ISBN 978-989-758-052-9. doi:10.5220/0005124800950103 [ENG].
- (Conference) E. De Santis, A. Rizzi, A. Sadeghian, and F. Frattale Mascioli. A learning intelligent system for fault detection in smart grid by a one-class classification approach. In Neural Networks (IJCNN), 2015 International Joint Conference on, pages 1–8, July 2015. doi: 10.1109/IJCNN.2015.7280756 [ENG].
- (Conference) De Santis, E., Greco, F., Pelagalli, F., Social emotional data analysis. The map of Europe. SIS2017 –in Intermediate Scientific Meeting of the ITALIAN STATISTICAL SOCIETY Proceedings (June 28-30, 2017) [ENG]
- (Conference) Leonori, S., De Santis, E., Rizzi, A., & Mascioli, F. F. (2016, November). *Multi objective optimization of a fuzzy* logic controller for energy management in microgrids. In Evolutionary Computation (CEC), 2016 IEEE Congress on (pp. 319-326). IEEE.
- (Conference) Leonori, S., De Santis, E., Rizzi, A., & Mascioli, F. F. Optimization of a microgrid energy management system based on a Fuzzy Logic Controller. Industrial Electronics Society, IECON 2016-42nd, 2016. DOI: 10.1109/IECON.2016.7793965
- (Journal) De Santis, E., Rizzi, A., and Sadeghian, A. (2017). A cluster-based dissimilarity learning approach for localized fault classification in Smart Grids. Swarm and Evolutionary Computation, Elsevier, 2017 [ENG].
- (Journal) De Santis, E., Sadeghian, A., & Rizzi, A. (2017). A Smoothing Technique for the Multifractal Analysis of a Medium Voltage Feeders Electric Current. International Journal of Bifurcation and Chaos, 27(14), 1750211., [ENG].
- Conference) Giampieri, M., De Santis, E., Rizzi, A., & Mascioli, F. M. F. (2018, July). A Supervised Classification System based on Evolutive Multi-Agent Clustering for Smart Grids Faults Prediction. In 2018 International Joint Conference on Neural Networks (IJCNN) (pp. 1-8). IEEE. [ENG].
- (Conference) De Santis, E., Martino, A., Rizzi, A., & Mascioli, F. M. F. (2018, July). Dissimilarity Space Representations and Automatic Feature Selection for Protein Function Prediction. In 2018 International Joint Conference on Neural Networks (IJCNN) (pp. 1-8). IEEE. [ENG].
- (Conference) De Santis, E., Paschero, M., Rizzi, A., & Mascioli, F. M. F. (2018, July). Evolutionary Optimization of an Affine Model for Vulnerability Characterization in Smart Grids. In 2018 International Joint Conference on Neural Networks (IJCNN) (pp. 1-8). IEEE. [ENG].
- (Conference) Giampieri, M., De Santis, E., Rizzi, A., & Mascioli, F. M. F. (2018, July). A Supervised Classification System based on Evolutive Multi-Agent Clustering for Smart Grids Faults Prediction. In 2018 International Joint Conference on Neural Networks (IJCNN) (pp. 1-8). IEEE.
- Conference) Martino, A., De Santis, E., Baldini, L., & Rizzi, A. (2019). Calibration Techniques for Binary Classification Problems: A Comparative Analysis. In *IJCCI* (pp. 487-495).
- (Journal) Martino, A., De Santis, E., Giuliani, A., & Rizzi, A. (2020). Modelling and Recognition of Protein Contact Networks by Multiple Kernel Learning and Dissimilarity Representations. *Entropy*, 22(7), 794.

Additional information	 ^a (Journal) De Santis, E., Martino, A., & Rizzi, A. (2020). An Infoveillance System for Detecting and Tracking Relevant Topics From Italian Tweets During the COVID-19 Event. <i>IEEE Access</i>, 8, 132527-132538. ^a (Conference) Antonino Capillo., Enrico de Santis., Fabio Massimo Frattale Mascioli., and Antonello Rizzi. Mining m-grams by a granular computing approach for text classification. In Proceedings of the 12th International Joint Conference on Computational Intelligence - Volume 1: NCTA,, pages 350–360. INSTICC, SciTePress, 2020. ISBN 978-989-758-475-6. doi: 10.5220/ 0010109803500360 ^a (Conference) Enrico de Santis., Antonino Capillo., Fabio Massimo Frattale Mascioli., and Antonello Rizzi. Classification and calibration techniques in predictive maintenance: A comparison between gmm and a custom one-class classifier. In Proceedings of the 12th International Joint Conference on Computational Intelligence - Volume 1: CI4EMS, pages 503–511. INSTICC, SciTePress, 2020. ISBN 978-989-758-475-6. doi: 10.5220/0010109905030511. ^a (Position paper) F. M. Bianchi, E. De Santis, P. Naraei, H. Montazeri, and A. Sadeghian. <i>Position paper: a general framework for applying machine learning techniques in operating room</i>. Arxiv preprint, International conferences 						
Additional mormation	 2013 IFSA World Congress NAFIPS Annual Meeting Edmonton, Canada June 24-28, 2013; 2014 IEEE World Congress on Computational Intelligence (IEEE WCCI 2014), Beijing, China, July 6-11, 2014; 2014 International Joint Conference on Computational Intelligence (IJCCI 2014), Rome, Italy, 22-24 October, 2014. 2015 The International Joint Conference on Neural Networks (IJCNN 2015), Killarney, Ireland, July 12 - 17, 2015. 2017 IEEE Congress on Evolutionary Computation 2017 Donostia - San Sebastián, Spain, June 5-8, 2017 2017 Intermediate Scientific Meeting of the ITALIAN STATISTICAL SOCIETY Florence June 28-30, 2017 2018 IEEE World Congress on Computational Intelligence (IEEE WCCI 2018), Rio de Janeiro, Brazil, July 8-13, 2018; 						
	- Principal Talks						
	 "An AI strategy to increase performances in e-learning environment by Natural Language Processing", Brain Alliance Annual General Meeting, Toronto - York University, Febbraio 2017. 						
	 "Computational Intelligence in Complex Systems with application to Smart Grids Environments", Master in "SMART CITIES AND COMMUNITIES: PLANNING AND MANAGEMENT OF THE CITY ORIENTED TO WELL- BEING", presso il Dipartimento di INGEGNERIA ASTRONAUTICA, ELETTRICA ED ENERGETICA (DIAAE), Università "Sapienza" di Roma, 2014. 						
	 "Computational Intelligence in Complex Systems With Application in Smart Grid environment", seminar series organized by the Computer Science department of Engineering faculty at Ryerson University, Toronto, Canada, 2013. 						
Annexes	N/A						

In compliance with the Italian legislative Decree no. 196 dated 30/06/2003, I hereby authorize you to use and process my personal details contained in this document.

Rome, December 28, 2020