

PERSONAL INFORMATION

Valeria Palladino



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Sex F | Date of birth 08/11/1983 | Nationality Italian

WORK EXPERIENCE

From 10/05/2021 current

Researcher Scientist

ENEA - Italian National Agency for the New Technologies, Energy and Sustainable Economic Development - (Smart Grid and Energy Networks Lab) Research Center, Portici (Naples) - Italy

Research activities relative to Smart Grids and Energy Communities, development of methodologies for applications related to energy contexts, management methods and optimization of distributed energy resources, study and analysis of components for the implementation of energy systems in the context of energy communities. Reviewer for international conferences and journals.

From 11/11/2014 to 09/05/2021

Research Fellow

ENEA - Italian National Agency for the New Technologies, Energy and Sustainable Economic Development - (Smart Grid and Energy Networks Lab) Research Center, Portici (Naples) – Italy

Design, testing and characterization of converters for applications in energy production systems from renewable sources and study and definition of the interfaces for their integration into energy microgrids. Laboratory testing for energy performance analysis (electro-thermal) of DC-DC power converters.

From 16/12/2013 to 31/07/2014

Support Tester

“INFINITY TECHNOLOGY SOLUTIONS S.p.A.” CLIENT “SELEX-ES S.p.A.”

Technical support on the platform "Track & Trace" for the management and tracking of post items at the final client “Poste Italiane S.p.A.”

From 02/04/2012 to 31/05/2013

Junior Project Manager

“S.E.T.I.” Electrical Telecommunications Information Society

Technical department coordinator. Requirement gathering and preparation of technical proposals. Project Management: technical inspections, contract analysis, preliminary and final design.

From 07/2010 to 07/2011

Intern

ENEA - Italian National Agency for the New Technologies, Energy and Sustainable Economic Development - Research Center, Portici (Naples)

Methods for evaluating the light intensity distribution on receivers of concentrated solar radiation systems study. Indirect measuring method study (Method camera-target) for the monitoring of radiation distribution. Experimental system indoor implementation.

Business or sector Energy

EDUCATION AND TRAINING

From 10/10/2016 to 14/10/2016

“Training and professional development for Energy Managers”

ENEA- Italian National Agency for the New Technologies, Energy and Sustainable Economic Development

24/02/2012 **Professional Engineering Licence**

University of Naples "Federico II"

19/07/2011 **Master's Degree, Electronic Engineering**

University of Naples Federico II (Italy)

Principal subjects: Electronic design, Microelectronics, Systems integrated architecture, Digital processing signals circuits, Power Electronics, Telecommunication networks, Sensors and transducers, Antennas and Propagation, Business Management  
Level 101/110

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	B2	B2	B2
		Independent User.		Certificate E.S.O.L. PET B1 13/07/2012	

Computer skills

- Windows and Microsoft Office™ tools in all its update
- Electronics design: SwitcherCAD and Microwind software, Labview.
- Dia;
- Gantt Project and Microsoft Office Project, PRIMUS-DCF Program.
- SuiteMatlab and Mathematica.
- Electronics (power supplies, voltmeters, oscilloscopes, signal generators, field meter, thermographic camera, solar simulator, datalogger).

ADDITIONAL INFORMATION

Publications

G. Ferruzzi, V. Palladino, G. Adinolfi, M. Valenti, G. Graditi "The role of protection systems in Smart Grids: the Protection Automation and Control application" 8th ICCEP, June 2023, Italy

C. Papadimitriou, M. Di Somma, C. Charalambous, M. Caliano, V. Palladino, A.F. Cortés Borray, A. González-Garrido, N. Ruiz, G. Graditi, "A comprehensive review of the design and operation optimization of energy hubs and their interaction with the markets and external networks". Energies 10 May 2023, 16, 4018. <https://doi.org/10.3390/en16104018>

A. Morch, M. Di Somma, C. Papadimitriou, H. Sæle, V. Palladino, J. F. Ardanuy, G. Conti, M. Rossi, G. Comodi "Technologies enabling evolution of Integrated Local Energy Communities" 2022 IEEE International Smart Cities Conference (ISC2), Pafos, Cyprus, 26 October 2022, pp. 1-6, doi: 0.1109/ISC255366.2022.9922568

G. Ferruzzi, S. Manfredi, G. Graditi, M. Valenti, C. Cancro, V. Palladino "Optimal Strategies for The Conflict Management Between DSO and Microgrids" Workshop on Blockchain for Renewables Integration (BLORIN), Palermo, Italy, 2-3 September 2022, pp. 150-155, 10.1109/BLORIN54731.2022.10027964

C. Cancro, C. Delcea, S. Fabozzi, G. Ferruzzi, G. Graditi, V. Palladino, Maria Valenti "A Profitability Analysis for an Aggregator in the Ancillary Services Market: An Italian Case Study" Energies 28 April 2022, 15, 3238 <https://doi.org/10.3390/en15093238>

G. Graditi, G. Adinolfi, V. Palladino, M. Valenti, "Reliability assessment of Modular Multilevel Converters by industrial and military prediction models", ICRERA, November 2019, Brasov. 10.1109/ICRERA47325.2019.8996833

G. Graditi, G. Adinolfi, R. Ciavarella, V. Palladino, "Design support tool for Multi-DER residential microgrids", ICRERA, October 2018, Parigi. 10.1109/ICRERA.2018.8566729

G. Graditi, G. Adinolfi, R. Ciavarella, V. Palladino, "A software for residential Multi-DER microgrids design", AIET, October 2018, Bari. 10.23919/AEIT.2018.8577366

G. Graditi, G. Adinolfi, R. Ciavarella, A. Scognamiglio, V. Palladino "Reliable-thermal design of smart converters for NZEB application", EUPVSEC, September 2018, Bruxelles. 10.4229/35thEUPVSEC20182018-5CV.3.56.

G. Adinolfi, R. Ciavarella, V. Palladino, M. Valenti, G. Graditi "A multi-objective optimization design tool for Smart Converters in photovoltaic applications", SPEEDAM, June 2018, Amalfi. 10.1109/SPEEDAM.2018.8445332

G. Graditi, G. Adinolfi, V. Palladino, "Auxiliary Services provided by Smart Maximum Power Point Tracking Converters: state of art and implementations", SPEEDAM, June 2016, Anacapri. 10.1109/SPEEDAM.2016.7525974

Presentations  
Conferences  
Seminars

Speaker at AmBIENCE Final Conference, presentation: "AEP regulation and actors", Brussels, 12 May 2022

Speaker at webinar ComESto: "Renewable energy communities, social acceptability and the role of the consumer" presentation: "The community as an ancillary service provider", Portici (NA), 28 January 2022

Speaker at the 8th ICRERA - INTERNATIONAL CONFERENCE ON RENEWABLE ENERGY RESEARCH AND APPLICATIONS for work: G. Graditi, G. Adinolfi, V. Palladino, M. Valenti, "Reliability assessment of Modular Multilevel Converters by industrial and military prediction models", 03-06 November 2019, Brasov.

Speaker at the 7th ICRERA - INTERNATIONAL CONFERENCE ON RENEWABLE ENERGY RESEARCH AND APPLICATIONS for work: G. Graditi, G. Adinolfi, R. Ciavarella, V. Palladino, "Design support tool for Multi-DER residential microgrids", 14-17 October 2018, Paris.

Projects

Research activities for the following projects:

**RICERCA DI SISTEMA ELETTRICO - Research Program Agreement 2022-2024:  
Integrated Cyber Security of energy systems**

**Bridge - Horizon 2020 – From March 2021**

**AmBIENCE - Active managed Buildings with Energy performance Contracting – H2020- N. 847054 – November 2021**

**eNeuron - greEN Energy hUBs for local integrated energy communities optimization - H2020 N. 957779 – November 2020**

**SOLARGRID- Sistemi solari termodinamici e fotovoltaici con Accumulo per cogenerazione e flessibilità di rete - PNR 2015-2020 - March 2020**  
Work Package Leader WP10: "Diffusion and dissemination activity"

**Project ES-PA (Energy and Sustainability for the PA) – Topic Smart grid**

**Project "ComESto" (Community Energy Storage: Gestione Aggregata di Sistemi d'Accumulo dell'Energia in Power Cloud) PNR 2015-2020, MIUR**

**Project "CoMoDES" (Modular Multilevel Converters for the Distributed generation energy contexts integration and Sustainable Electric mobility) PON I&C 2014-2020**

**Project: "SMART HOME" 2016 (PON 03PE\_00093\_1)**

**Ricerca di Sistema Research Program Agreement 2015-2018**

**Project B.1.2 Development of design tools and study of innovative active devices for SMPPT converters**

**Project "DC4cities" (Data Centre for Smart Cities) - FP7 European Union**

**Project "FERGE" (Renewable Energy Sources towards the Green Economy) PON R&C 2007-2013**

"According to law 679/2016 of the Regulation of the European Parliament of 27th April 2016, I hereby express my consent to process and use my data provided in this CV".

*Valeria Palladino*

Naples, 18<sup>th</sup> July 2023

*Valeria Palladino*