

PERSONAL INFORMATION

Paola Verde

 Dipartimento Di Ingegneria Elettrica e dell'informazione "Maurizio Scarano" Università degli Studi di Cassino e del Lazio Meridionale Via G. Di Biasio, 43 03043 Cassino (Fr)

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 Nationality Italian

WORK EXPERIENCE

From 2001 to date

Professor of Electrical Power Systems (Scientific Sector Electric Power Systems IIND08/B - formerly ING-IND/33)

Department of Electrical and Information Engineering "M. Scarano" - University of Cassino and Southern Lazio

- Currently she teaches Analysis and quality of electrical systems for students of the master's degree Course in Electrical Engineering students of the Master's Degree Course in Electrical Engineering (5 years) at the University of Cassino and Southern Lazio (Unicas)
 - President of National Association GUSEE, the University Group of Electrical Systems
 - Member of the CST (Commissione Superiore Tecnica) of CEI (Comitato Elettrotecnico Italiano)
 - Principal Investigator of the National project SUERTE TO GREEN, Models and methods for Sustainable Energy Road Tunnels in microgrid Environment able TO provide Grid service and External Energy, with University of Naples Parthenope and Polytechnic of Turin funded by Ministry of University and Research (Call PRIN-PNRR 2022)
 - Member of AEIT (Italian Association of Electrical Engineers) from 2000
 - Senior member of IEEE from 2022 (Member from 202)
 - Member of the University of Molise (Unimol) Evaluation Board (from April 2024 to date)
 - Member of the Unimol Independent Evaluation Board ((from April 2024 to date)
 - Unicas representative on the Directive Council of the National Interuniversity Consortium ENSIEL (Energy and Electrical Systems) from March 2022 to date.
 - Representative of UniCas in Task Force T7.3 of the European Alliance EUt+ (December 2022 to date)
 - Component of the Committee for the Sustainable Development (CASE) of Unicas.
 - Member of CIGRE and of Italian CIGRE Women in Energy Committee from 2024
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- Director of the Department of Industrial Engineering (2009 - 2010)
 - Chairman of the Programs in Electrical Engineering (2002-2009)
 - Founder, and the first President, of the Section of Cassino of AEIT (Italian Association of Electrical and Information Engineering) (2006)
 - Member of the Unicas Evaluation Board (from November 2018 to October 2024)
 - Member of the Unicas Independent Evaluation Board (from November 2018)
 - President of the University Center for Orientation of Unicas (November 2015 - March 2017)
 - Member of the Department Board of the Department of Electrical and Information Engineering (DIEI) of Unicas (2014-2018).
 - Scientific Director of the Laboratory of Power Systems, Department of Industrial Engineering (1999-2006).
 - Expert of the Ministry of University and Scientific Research for the National projects COFIN
 - Expert for the evaluation of research projects in the electricity sector system by the National Authority for Electricity and Gas (formerly AEEG) with resolution n.214/07 in respect of the article 11 of the Decree of the Minister of Productive Activities (2006 to present)
 - Included in the List of Technical-Scientific Experts of the SIM (Integrated Monitoring System) RESEARCH platform of the Campania Region, Directorate General for University, Research and Innovation.
 - Included in the list of experts for the evaluation of system research projects in the electricity sector by the AEEG (Authority of Electricity and Gas, now ARERA) with resolution n.214 / 07 referred to in article 11 of the Decree of the Minister of Productive Activities (from 2006 to 2019).
 - Included in the list of experts of the experts referred to in the Decree of the Minister of Economic Development of 7 October 2015 (from 2016 to 2017, and from 2020 to present).
 - Included in the list of external evaluators of the University of Padua

- Quality Manager of the Master of Science in Electrical Engineering from University of Cassino (2016-2018)
- Member of Joint Working Group (JWG) CIGRE'-CIRED (Conseil International des Grands Réseaux Electriques - Congrès International des Réseaux Electriques de Distribution) C4.107 "Economics of Power Quality". (2006-2008)
- Coordinator of the section " Overview of methodologies for assessment of economic impact - end user perspective" of the JWG (Joint Working Group) C4.107 CIGRE - CIRED (2006-2008)
- Coordinator of the section " Methodology for collecting economic power quality data" of the CIGRE - CIRED JWG C4.107 (2006-2008)
- Member of the National Committee TC 4.1 "Management of road heritage" of the World Road Association AIPCR / PIARC (Association Internationale Permanente des Congrès de la Route / Permanent International Association of Road Congress) for the years 2012-2015.
- Coordinator of the Working Group "Balancing technical and environmental needs in the management of the road network" within the TC 4.1 National Committee, until the end of the works (2012-2015)
- Coordinator of the TF.1 Task Force "Innovation in the management of technological systems and energy saving" of the National Committee on Road Heritage Management, since its establishment (2016 - 2019)
- Member of the National Committee TC 3.3 "Management of road heritage" of the World Road Association AIPCR / PIARC (Association Internationale Permanente des Congrès de la Route / Permanent International Association of Road Congress) for the years 2020-2023.
- Coordinator of the TF.1 Task Force 3.3.1 – "Innovative approaches for infrastructure management systems" of the National Committee TC 3.3 "Management of road heritage" of the World Road Association AIPCR / PIARC (2020 – 2023)
- Member of the assessment committee of the Faculty of Engineering and Science, AAU Energy, for the position of an Associate Professor in Wind Power System and Power Electronic-dominated Power System, Aalborg University, Denmark (2023)
- External experts for promotion to Professor at Luleå University of Technology (2022)
- Member of the assessment committee of the Doctoral School of Engineering and Science of Aalborg University for the final examination, Denmark (2022)
- External Evaluator for PhD examination in Discipline of Electrical Engineering - Indian Institute of Technology Indore (2020).
- External Evaluator for PhD examination for the School of Electrical and Electronic Engineering of the Dublin Institute of Technology (2019).
- Opponent Professor for PhD examination for the University of Chalmers in Gothenburg, Sweden (2005).
- External Evaluator for the final PhD exam for University of L'Aquila (2021), of Calabria (2020), of Rome "La Sapienza" (2019, 2023), of University of Salerno (2017), of Naples "Federico II" (2017).
- External Evaluator of the A3ES – Agency for Assessment and Accreditation of Higher Education, the Portuguese Agency of evaluation of universities (2011)
- Scientific manager of the agreement between ANAS SpA and University of Cassino for the issues in the field of energy efficiency and performance of electrical systems at the service of the road network.
- Member of the Working Group ANNEX XIX Advanced Fuel Cells Stationary Fuel Cells International Energy Agency (IEA) (from 2003 to 2009).
- Member of the Technical Program Committee for the Twelfth IEEE International Conference on Harmonics and Quality of Power.
- Co -chair of the International Conference UPEC 2008 held in Padua in September 2008.
- Referee of the Power Engineering Society of the IEEE, the IET, Elsevier, of Electrical Power and Energy.
- Associate Editor for International Journal of Power and Energy Systems (Scimago).
- Component of the Editorial board of ISRN Power Engineering.
- Component of the Editorial Board International Transaction on Power and Energy Systems (www.itpes.in)
- Editor in chief of the MAPTA Journal of Electrical & Computer Engineering
- Component of the Editorial Board of the journal Energies MDPI - Section Smart Grids and Microgrids (from March 2020) and for the Section Electrical Power System' (from 2020)
- Scientific Responsible of several agreements/contracts between industrial partners and Unicas (ANAS, TERNA, ENEL-Distribuzione, CNR, CESI, CUKY S.p.A, etc.).

Dates	From 1998 to 2001
Occupation or position held	Associate Professor of Electrical Systems at University of Cassino
Main activities and responsibilities	<i>Teachings activities</i> Electrical Safety Technology (Degree) (A.Y.1998/99) . Power electronic systems in electrical installations (A.Y. 1998/99) . Types and topologies of converters under the assistance "Training the leaders of the diffusion of innovation ", funded on the Structural Funds of the European Union 94/96 , Objective 2 Lazio Region , Measure 2.9 (1998). Advanced Training Course "Devices in electronic engineering phase - Use of systems for the simulation of circuits and devices," as part of Line 1 " Development of a Laboratory of Applied Research and Advanced Training in the field of Static Converters Switching Forced to " the project "Development and Enterprise creation " of the Science and Technology Park in Southern Lazio financed by MURST - Ref: no. 1-63042 (1999). Course of Autotronics organized by CNA autotronics of Frosinone for craftsmen electromechanical. Computer Course for employees dell'ASL1 of Benevento (1999-2000). Lessons " Regulatory and procedural requirements for the presentation of projects in the energy field - electric" in the Master in Energy Management and Territorial funded by MIUR - PON "Scientific Research, Technological Development, Higher Education " for the Objective 1 regions, ASSE III- Measure II.2 (2000-2006). Lecturer for the project " Creation of an enterprise " Palmer 1999-2001 in coordination with the Second University of Naples and Ansaldo Ricerche di Genova. <i>Managing and Research activities</i> Representative of Associate Professors in the Board of the Department of Industrial Engineering of the University of Cassino (1999). Representative of the Professors in the Commission for Education in Electrical Engineering Secretary of the Commission for the Teaching of the Course of Degree in Electrical Engineering (1999-2002). Scientific director of the Laboratory of Power Systems of the Department of Industrial Engineering (1999-2006) . Experimental researchers at the Innovative Research Consortium for the South (CRIS) Ansaldo Transport within the European Project " Research Activities on Techniques to Analyse Harmonic Distortion two to Modern AC Rails and Investigation of R / X ratio of 25 kV Realistic Equipment " , within the European Project " Training and Research on the Study and Testing of Components and Systems for Railway Transport (TRAIN) " framework Programme " Training and Mobility of Researchers - Access to Large Scale Facilities " (Contract No. ERBFMGECT950064) (1999) .
Dates	From 1991 to 1998
Occupation or position held	Researcher of Electrical Systems at University of Cassino

Main activities and responsibilities

Teaching activities

Industrial electrical systems (A.Y. 1994/95).
Electrical Systems for Energy (A. Y's 1994/95, 1995/96).
Design of Electrical systems for the Professional Engineers of the Province of Frosinone.
Electrical Systems for transports (A.Y. 1997/98).
Electronic systems of power in electrical systems (Master of Science) (A.Y.'s 1994/1995, 1995/1996, 1996/97, 1997/98).

Managing and Research activities

Organizing the Course on "Electrical Safety" for Professional Engineers of the Province of Benevento, taking some lessons (1995).
Representative of C.N.R. the Technical Committee no. 8 of the Italian Institute for the Quality Mark, following the appointment of the Presidential Council of the CNR (1991).
Representative of researchers in the Board of the Department of Industrial Engineering of the University of Cassino (1992).
Researcher representative on the Board of the Faculty of Engineering of the University of Cassino.
Member of the Institute of Electrical and Electronics Engineering (IEEE) since 1992.
Member of the "Working Group on Power System Harmonics" of the Power Engineering Society of the IEEE.
Experimental researcher at the Innovative Research Consortium for the South (CRIS) Ansaldo Transport within the European Project "Research Activities on Probabilistic Techniques to Analyse Harmonic Distortion: Modelling and Testing of AC rail" within the European Project "Hosting and Training of Researchers on the Study and Testing of Components and Systems for Urban Electrical and Rail Transport" Framework Programme "Human Capital and Mobility - Access to Large Scale Facilities" (Contract No. 940066 ERBCHGECT). (1997).
Member and Vice President of the "Task Force on Probabilistic Aspects of Harmonics" of the IEEE Power Engineering Society (1993-2008).

EDUCATION AND TRAINING

Replace with dates (from - to)

Replace with qualification awarded

Replace with EQF
(or other) level if
relevant

Replace with education or training organisation's name and locality (if relevant, country)

▪ Replace with a list of principal subjects covered or skills acquired

PERSONAL SKILLS

Mother tongue(s)

Italian

Other languages

English

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	
C1	C2	C1	C1	C2

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Organisational / managerial skills

- 2020 President of the Commission for the final exam for the achievement of the PhD title for the PhD in "Science and Engineering of the Environment, Construction and Energy" - XXXI cycle, with administrative headquarters at the University of Calabria
- 2020 President of the Commission for the final exam for the achievement of the PhD title for the PhD in "Environmental, Construction and Energy Sciences and Engineering" - XXXII cycle, with administrative headquarters at the University of Calabria
- 2020 appointed by the fund for Energy and Environmental Services (CSEA) as an expert evaluator of research projects, pursuant to Article 9 of the Ministerial Decree of 16 April 2018.
- 2019-2022 appointed by the National Agency for the attraction of investments and business development S.p.A. (INVITALIA) for the evaluation of the Industrial Research and Experimental Development program (P.R.I.S.) relating to the development contract NET4RAIL - Cod. Prog. CDS000665 (total cost of € 21,540,330.00)
- 2019 External Evaluator for the final PhD exam for the School of Electrical and Electronic Engineering of the Dublin Institute of Technology (2019).
- 2011-2018 appointed by the AEEG for "the preparation of the technical specifications and for the ongoing and final evaluation of the research projects presented pursuant to the call for tenders for the selection of system research projects, approved by decree of the Ministry of Development Economic of 12 December 2008, and admitted to the rankings by decree of the same Ministry of 16 February 2010 "
- 2018 Editor in Chief of the Journal of Electrical and Computer Engineering (MJECE) of the Mapta Publishing Group.
- 2018 appointed by the Research Department of University of Sharjah for the evaluation of the research project "Advanced Sliding Mode Control for The Distributed Generation System".
- 2018 appointed by the Campania Region (n. 195 of 16/05/2018) for the evaluation of projects in the competitive tender "Campania Innovative Start up" (Decree n. 360 of 12/06/2017 - BURC 47 of 12 June 2017).
- 2016 Scientific manager of the contract with ENEL SpA - Global Infrastructure and Networks "Scientific support activities on Power Quality issues in distribution networks" (Contract 8400070485 of 20.01.2016)
- 2014 Appointed by the University of Padua for the Evaluation of the Research Project "Wireless Power Transfer in Automotive applications Using Gan / SiC Power Devices and Smart Power Management" - Piscopia Call 2013
- 2012-2017 Member of the Technical Evaluation Committee, appointed by Executive Decree no. 160 of 23/07/2012 - Campania Region - Department of Scientific Research, for the monitoring phases subsequent to the decree granting the facilities, relating to the progress of the works (SAL and Verification) of the projects approved under the Campus call for Industrial research projects and Experimental Development ", in implementation of operational objectives 2.1 and 2.2, announced with Executive Decree n.327 of 11 August 2009.
- 2012-2015 Scientific Responsible of the UniCas Convention - ANAS S.p.A. for issues in the field of energy efficiency and performance of electrical systems serving the road network.
- 2012 Evaluation of eligibility, SAL and final balance of the PAR (Research Activity Plan) of Erse 2011 appointed by the AEEG
- 2012 Appointed by the MiSE for the evaluation of an investment program (prog. N. ENG_00128) under the D.M. August 6, 2010, in favour of investment programs concerning the production of capital goods functional to the development of renewable energy sources and energy saving in buildings proposed by companies located in the areas of the Convergence objective.
- 2011 Evaluation of eligibility, SAL and final balance of the PAR (Research Activity Plan) of Erse 2010 appointed by the AEEG
- 2011 Scientific manager of the research contract with the FIAT plant in Cassino "Analysis and evaluation of the compensation of voltage dips in electricity aimed at obtaining business continuity from a WCM perspective." (- SAP 4558342).
- 2011 Member of the Joint Working Group CIGRE'-CIRED JWG C4.107 "Economics of Power Quality". Coordinator of the section "Overview of methodologies for assessment of economic impact - end user perspective" of JWG C4.107. Coordinator of the "Methodology for collecting power quality economic data" section of JWG C4.107
- 2010 appointed by the AEEG for the evaluation of the final balance of the MiSE program agreement - ERSE S.p.A. of 29 July 2009 - 2009 Annual Implementation Plan approved by MiSE on 27/01/2010
- 2010-2011 Head of the Cassino Unit as part of the 2010-2011 PRIN project funded under the title "Advanced systems for assessing and managing the quality of service in active distribution networks, with experimental verification using a simulator in time

- 2010 Referee of the project "Research and Development of street lighting systems to solar power - structures and criteria for obtaining plants self-sufficient and safe for traffic" - DD. N. 205 of 15/05/2009 and DD. N. 292 of 06/24/2009.
- 2010 Referee of the project "Integrated System for non-invasive predictive analysis of the system status" - DD. N. 205 of 15/05/2009 and DD. N. 292 of 06/24/2009.
- 2010 Referee of the project "Research for the production of clean energy, while respecting environmental sustainability, through the use of new materials and technologies for aesthetic experimentation and formal architectural composition and landscape and control of innovative production processes" - DD. N. 205 of 15/05/2009 and DD. N. 292 of 06/24/2009.
- 2010 Referee of the project "Conception, design and validation of a new type of electrical panels to be installed in dusty and explosion risk" - DD. N. 205 of 15/05/2009 and DD. N. 292 of 06/24/2009.
- 2010 Referee of the project "Hydrogen storage systems in hybrid photovoltaic systems for application in complex industrial and service sectors". - DD. N. 205 of 15/05/2009 and DD. N. 292 of 06/24/2009
- 2008 - 2009 Head of the agreement between the Department of Industrial Engineering, University of Cassino and the CNR- DET (Department of Energy and Transport) for the project "Fuel cells for stationary applications cogeneration - Thematic Group (5.2.5.11) International Projects atomic energy, hydrogen fuel cells. "
- 2006-2009 Designer and Head of Project Objective O3 n.E01 / 0691/02 / X05 funded by the Ministry of Productive Activities in the PNR scheme FIT 2005 "Development of an innovative prototype for the dispersed generation of electricity and heat high efficiency and low environmental impact, based on fuel cells powered by hydrogen produced from natural gas "Project no. E01 / 0691/02 / X05 in partnership between DII, and ATS Aerotermosud COELMO srl srl.
- 2006 Designer and researcher with the company COELMO Ltd. Project "Development of micro-generators with hydrogen Fuel Cell technology funded by Regione Campania L.598 / 94.
- 2003 - 2004 Head of project "Analysis and compensation of voltage sags" (Project funded by the University of Cassino in 2003 and 2004).
- 2000-2003 Coordinator of the activities of the National Executive of the Project Work Package W1.2 "Analysis, modelling and testing of static converters for improving the quality of the voltage and drives the traction" Plan Expansion of Network Science and Technology "Power Electronics" - cluster C12 (budget of the cluster 1330.6 ML), funded by MURST by Decree No. 191 of 31.5.1999 pursuant to Law 488/92.
- 2003 Head of the project "Study and verification for the power supply of the machine IGNITOR" commissioned by the Consortium CREATE (Consortium for Energy Research and Technological Applications of electromagnetism).
- 2002 Head of the project "Design of distribution networks with probabilistic criteria within" as part of the Research Project of National Interest: Risk Management and Quality in Electricity Market (Project financed within the PRIN 2002).
- 2002 Coordinator of the working group for the "Feasibility study for the construction of a thermal power plant to combined cycle gas-steam (2x390MW)" as part of the Urban Renewal Program and Sustainable Development of the Territory - PRUSST "Calydon" for the City of Benevento.
- 2001 Project Manager "state estimation systems in the presence of static converters" funded by the University of Cassino
- 2000 Head of the project "Methods for the assessment of the reliability of electricity distribution systems in cable" as part of the Research Project of National Interest: "Innovative techniques for the diagnosis and evaluation of cable systems for the transmission and distribution of electricity" (Project funded by PRIN 2000).
- 1999 Head of the research project "Conversion Systems switching for special applications" funded by the University of Cassino
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- 1997-1998 Head of Unit of Cassino of the Coordinated Project "New techniques for reducing the complexity of the systems of distribution of electricity in MV / LV: Government of the energy aspects, diagnostic and environmental impact" funded by CNR.
- 1996 Head of the Italian Bilateral Project Italy / USA No. 95.02096 "cumulative impact of more non-linear loads on the electrical power supply system" funded by the National Research Council, which provided as foreign partner Prof. W. M. Grady of the University of Texas at Austin.

ADDITIONAL INFORMATION

Publications

- [1] H. Awad, E. H. E. Bayoumi, H. M. Soliman, M. de Santis and P. Verde, "Modeling and Control of AC Microgrids Under Unbalanced Utility Grid Voltage Using the Invariant-Ellipsoid Method," in *IEEE Access*, vol. 13, pp. 34409-34434, 2025, doi: 10.1109/ACCESS.2025.3544136.
- [2] L. Rubino, G. S. Barbato, M. D. Santis, R. Langella, G. M. Casolino, I. Hussain, and P. Verde. "VILLAS Framework for Distributed-Software-In-the-Loop Voltage Optimization with Renewables and Ultrafast Charging Stations." In 2024 International Conference on Smart Energy Systems and Technologies (SEST), pp. 1-6. IEEE, 2024.
- [3] I. Hussain, G. M. Casolino, P. Varilone, and P. Verde "EV Hosting Capacity in Distribution Networks Considering RES, Grid Limits, and Supraharmonics." In the 25th IEEE International Conference on Environment and Electrical Engineering. IEEE, 2025
- [4] Bracale, P. Caramia, G.M. Casolino, P. De Falco, I. Hussain, P. Varilone, P. Verde, "Harmonic and Supra-Harmonic Emissions of Electric Vehicle Chargers: Modeling and Cumulative Impact Indices," in *IEEE Open Access Journal of Power and Energy*, vol. 11, pp. 690-702, 2024, doi: 10.1109/OAJPE.2024.3521030.
- [5] Guido Carpinelli, Christian Noce, Angela Russo, Pietro Varilone, Paola Verde, Optimal siting and sizing of battery energy storage systems in unbalanced distribution systems: A multi objective problem under uncertainty, *International Journal of Electrical Power & Energy Systems*, Volume 162, 2024, 110316, ISSN 0142-0615, <https://doi.org/10.1016/j.ijepes.2024.110316>, (<https://www.sciencedirect.com/science/article/pii/S0142061524005398>).
- [6] Testa, G. Chang and P. Verde, "Editorial Special Section on "Power Quality in the Energy Transition: Selected Papers from ICHQP 2022"," in *IEEE Open Access Journal of Power and Energy*, vol. 10, pp. 349-350, 2023, doi: 10.1109/OAJPE.2023.3276548.
- [7] Bracale, P. Caramia, G. Carpinelli, P. De Falco, P. Verde, "Cosine Windows in Interpolated DFT-based Method for an Accurate High-Frequency Distortion Assessment in Power Systems", 21th International Conference on Renewable Energies and Power Quality (ICREPQ'23), Madrid (Spain), 24th to 26th May 2023, *Renewable Energy and Power Quality Journal (RE&PQJ)*, ISSN 2172-038 X, Volume No.21, July 2023.
- [8] Bracale, P. Caramia, G.M. Casolino, P. De Falco, I. Hussain, P. Varilone, P. Verde, "Harmonic and Supraharmonic Emissions of the Electric Vehicle Chargers in Distribution Networks", 8th International Conference on Clean Electrical Power Renewable Energy Resources Impact, Terrasini, Sicily– Italy, 27-29 June 2023
- [9] Bracale, P. Caramia, G.M. Casolino, P. De Falco, I. Hussain, P. Varilone, P. Verde, "On the Global Harmonic and Supraharmonic Emission of an Electric Vehicle Charging Station: Investigation of Aggregation and Diversity", 8th International Conference on Clean Electrical Power Renewable Energy Resources Impact, Terrasini, Sicily– Italy, 27-29 June 2023
- [10] F. Mottola, D. Proto, P. Varilone and P. Verde, "Optimal Siting and Sizing of Electrical Energy Storages Accounting for Voltage Dip Economic Regulation," 2022 20th International Conference on Harmonics & Quality of Power (ICHQP), Naples, Italy, 2022, pp. 1-6, doi: 10.1109/ICHQP53011.2022.9808769.
- [11] Bracale, P. Caramia, P. D. Falco, E. Di Mambro, P. Varilone and P. Verde, "Impact of Synchronous Compensators on the Robustness in Short-Circuit Conditions of Transmission Systems with High Share of RES," 2022 20th International Conference on Harmonics & Quality of Power (ICHQP), Naples, Italy, 2022, pp. 1-6, doi: 10.1109/ICHQP53011.2022.9808458.
- [12] G. M. Casolino, L. Di Stasio, P. Varilone, P. Verde, C. Noce and M. De Santis, "On the Forecast of the Voltage Sags Using the Measurements in Real Power Systems," 2022 20th International Conference on Harmonics & Quality of Power (ICHQP), Naples, Italy, 2022, pp. 1-6, doi: 10.1109/ICHQP53011.2022.9808691 selected for Special Issue of IEEE PES Open Access Journal.
- [13] M. De Santis, L. D. Stasio, C. Noce, P. Varilone and P. Verde, "Indices of Intermittence to Improve the Forecasting of the Voltage Sags Measured in Real Systems," in *IEEE Transactions on Power Delivery*, vol. 37, no. 2, pp. 1252-1263, April 2022, doi: 10.1109/TPWRD.2021.3082280.
- [14] L. Di Stasio, P. Verde, P. Varilone, M. De Santis and C. Noce, "Stochastic Model to Forecast the Voltage Sags in Real Power Systems," 2021 *AEIT International Annual Conference (AEIT)*, 2021, pp. 1-6, doi: 10.23919/AEIT53387.2021.9626989,
- [15] Noce, L. Di Stasio, P. Varilone, P. Verde and M. De Santis, "On the Forecast of the Voltage Sags: First Stages of Analysis on Real Systems," 2020 55th International Universities Power Engineering Conference (UPEC), Torino, Italy, 2020, pp. 1-6, doi: 10.1109/UPEC49904.2020.9209816, selected for the Special Issue Verifying the Targets—Selected Papers from the 55th International Universities Power Engineering Conference.
- [16] De Santis, Michele, Leonardo Di Stasio, Christian Noce, Paola Verde, and Pietro Varilone. 2021. "Initial Results of an Extensive, Long-Term Study of the Forecasting of Voltage Sags" *Energies* 14, no. 5: 1264. <https://doi.org/10.3390/en14051264>
- [17] Mottola, F.; Proto, D.; Varilone, P.; Verde, P. Planning of Distributed Energy Storage Systems in μ Grids Accounting for Voltage Dips. *Energies* 2020, 13, 401.
- [18] Carbone, G.; Ceccarelli, M.; Fabrizi, C.; Varilone, P.; Verde, P. Effects of Voltage Dips on Robotic Grasping. *Robotics* 2019, 8, 28, included in "Advances in Italian Robotics", ISBN 978-3-03928-931-8 (Pbk); ISBN 978-3-03928-932-5 (PDF), <https://doi.org/10.3390/books978-3-03928-932-5> (registering DOI), © 2020 by the authors; CC BY license, July 2020. <https://doi.org/10.3390/books978-3-03928-932-5> (registering DOI), © 2020 by the authors; CC BY license
- [19] Noce, M. D. Santis, L. D. Stasio, P. Varilone and P. Verde, "Detecting the Origin of the Voltage Sags Measured in the Smart Grids," 2019 International Conference on Clean Electrical Power (ICCEP), Otranto, Italy, 2019, pp. 129-135, doi: 10.1109/ICCEP.2019.8890121.

- [20] Antonio Bracale, Pierluigi Caramia, Pietro Varilone, Paola Verde, Probabilistic Estimation of the Energy Consumption and Performance of the Lighting Systems of Road Tunnels for Investment Decision Making, April 2019, *Energies* 12(8):1488 DOI: 10.3390/en12081488
- [21] Di Mambro, P. Caramia, P. Varilone and P. Verde, "Sag Estimation of Real Transmission Systems for Faults Along the Lines in the Presence of Distributed Generation," 2018 IEEE International Conference on Environment and Electrical Engineering and 2018 IEEE Industrial and Commercial Power Systems Europe (EEEIC / I&CPS Europe), Palermo, 2018, pp. 1-5, doi: 10.1109/EEEIC.2018.8493787
- [22] Di Mambro, P. Caramia, P. Varilone and P. Verde, "Voltage sag estimation of real transmission systems for faults along the lines," 2018 18th International Conference on Harmonics and Quality of Power (ICHQP), Ljubljana, 2018, pp. 1-6 doi: 10.1109/ICHQP.2018.8378833.
- [23] C. Noce, M. De Santis, P. Varilone and P. Verde, "Comparison of methods using only voltage measurements for detecting the origin of voltage sags in the modern distribution networks," 2018 18th International Conference on Harmonics and Quality of Power (ICHQP), Ljubljana, 2018, pp. 1-6. doi: 10.1109/ICHQP.2018.8378844
- [24] M. De Santis, C. Noce, P. Varilone, P. Verde, "Analysis of the origin of measured voltage sags in interconnected networks", *Electric Power Systems Research* 154 (2018) 391–400
- [25] P. Caramia, E. Di Mambro, P. Varilone, P. Verde, "Impact of Distributed Generation on the Voltage Sag Performance of Transmission Systems", *Energies*, 10. 959. 10.3390/en10070959.
- [26] C. Noce, P. Varilone, P. Verde, 'Voltage Dip Monitoring and Analysis in Enel Distribuzione Network', 23rd International Conference on Electricity Distribution (CIRED), Lyon, 15-18 June 2015
- [27] Di Manno, M., Varilone, P., Verde, P., Di Perna, C., Salemme, M., User friendly smart distributed measurement system for monitoring and assessing the electrical power quality, 2015 AEIT International Annual Conference, AEIT 2015, 2015, 7415246
- [28] Caporaso, M. Montecucullo, P. Varilone, P. Verde, 'Actual Cases of Energy Savings and Performance Modelling of Tunnel Lighting Systems for Decision Making of Investments', *Routes/Roads*, n.366, 2nd Quarter 2015, ISSN: 1011-1891, pp. 82,86.
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