



**Elenco dei titoli e delle pubblicazioni
scientifiche**

**Settore Concorsuale: 09/E2 - INGEGNERIA
DELL'ENERGIA ELETTRICA**

Prima Fascia

Renato RIZZO

Posizione accademica

Settore Scientifico Disciplinare:	ING-IND/32 - Convertitori, macchine e azionamenti elettrici
Qualifica:	Professore Ordinario
Anzianità nel ruolo:	01/11/2018
Sede Universitaria:	Università degli Studi di Napoli Federico II
Struttura di afferenza (dipartimento o altro):	Ingegneria Elettrica e delle Tecnologie dell'Informazione

Posizioni ricoperte precedentemente nel medesimo ateneo o in altri

Periodo	Fascia	Ateneo
16/11/1994	Ricercatore Universitario	Università degli Studi di Napoli Federico II
01/11/2006	Professore II Fascia	Università degli Studi di Napoli Federico II
01/11/2018	Professore I Fascia	Università degli Studi di Napoli Federico II



Pubblicazioni scientifiche

1	2020	<p>Articolo in rivista</p> <p>Di Noia L. P., Piegari L., Rizzo R. (2020). Optimization methodology of PMSM cooled by external convection in aircraft propulsion. ENERGIES, vol. 13, ISSN: 1996-1073, doi: 10.3390/en13153975</p>
2	2020	<p>Contributo in Atti di convegno</p> <p>De Falco P., Del Pizzo A., Di Noia L. P., Rizzo R. (2020). Heuristic approach for the characterization of thermal transient in batteries. In: Proceedings - 2020 2nd IEEE International Conference on Industrial Electronics for Sustainable Energy Systems, IESES 2020. p. 56-60, Institute of Electrical and Electronics Engineers Inc., ISBN: 978-1-7281-4017-9, ita, 2020, doi: 10.1109/IESES45645.2020.9210679</p>
3	2020	<p>Contributo in Atti di convegno</p> <p>Di Noia L. P., Rizzo R. (2020). Thermal analysis of battery cables for electric vehicles. In: Proceedings - 2020 2nd IEEE International Conference on Industrial Electronics for Sustainable Energy Systems, IESES 2020. p. 298-302, Institute of Electrical and Electronics Engineers Inc., ISBN: 978-1-7281-4017-9, ita, 2020, doi: 10.1109/IESES45645.2020.9210674</p>
4	2020	<p>Contributo in Atti di convegno</p> <p>Oceano A., Rodella G., Rizzo R., Di Noia L. P., Brusaglino G. (2020). Grid balancing support through electric vehicles mobile storage. In: 2020 International Symposium on Power Electronics, Electrical Drives, Automation and Motion, SPEEDAM 2020. p. 108-113, Institute of Electrical and Electronics Engineers Inc., ISBN: 978-1-7281-7019-0, ita, 2020, doi: 10.1109/SPEEDAM48782.2020.9161913</p>
5	2020	<p>Contributo in Atti di convegno</p> <p>Schettino G., Miceli R., Rizzo R., Pellitteri F., Viola F. (2020). Experimental validation of maximum constant boost control and switching frequency optimal for three-phase quasi-Z-Source converters. In: Proceedings - 2020 2nd IEEE International Conference on Industrial Electronics for Sustainable Energy Systems, IESES 2020. p. 113-118, Institute of Electrical and Electronics Engineers Inc., ISBN: 978-1-7281-4017-9, ita, 2020, doi: 10.1109/IESES45645.2020.9210647</p>
6	2020	<p>Contributo in Atti di convegno</p> <p>Di Noia L. P., Mastromauro R. A., Piegari L., Rizzo R. (2020). Modified field oriented control for fail-operational multi-phase induction motor drives. In: Proceedings - 2020 IEEE 14th International Conference on Compatibility, Power Electronics and Power Engineering, CPE-POWERENG 2020. p. 267-272, Institute of Electrical and Electronics Engineers Inc., ISBN: 978-1-7281-4218-0, prt, 2020, doi: 10.1109/CPE-POWERENG48600.2020.9161534</p>



7	2020	Contributo in Atti di convegno Dannier A., Del Pizzo Andrea, Di Noia L. P., Rizzo Renato (2020). Equivalent thermal model of stator slots using FEA. In: 2020 IEEE Texas Power and Energy Conference, TPEC 2020. p. 1-6, Institute of Electrical and Electronics Engineers Inc., ISBN: 978-1-7281-4436-8, Memorial Student Center at Texas A and M University, 275 Joe Routh Blvd #2240, usa, 2020, doi: 10.1109/TPEC48276.2020.9042574
8	2020	Contributo in Atti di convegno De Falco P., Di Noia L. P., Rizzo R. (2020). State of health prediction of lithium-ion batteries using accelerated degradation test data. In: 2020 IEEE Texas Power and Energy Conference, TPEC 2020. p. 1-6, Institute of Electrical and Electronics Engineers Inc., ISBN: 978-1-7281-4436-8, Memorial Student Center at Texas A and M University, 275 Joe Routh Blvd #2240, usa, 2020, doi: 10.1109/TPEC48276.2020.9042516
9	2019	Articolo in rivista Di Noia, Luigi Pio, Genduso, Fabio, Miceli, Rosario, Rizzo, Renato (2019). Optimal integration of hybrid supercapacitor and IPT system for a free-catenary tramway. IEEE TRANSACTIONS ON INDUSTRY APPLICATIONS, vol. 55, p. 794-801, ISSN: 0093-9994, doi: 10.1109/TIA.2018.2871438
10	2019	Articolo in rivista Dezza F. C., Musolino V., Piegari L., Rizzo R. (2019). Hybrid battery-supercapacitor system for full electric forklifts. IET ELECTRICAL SYSTEMS IN TRANSPORTATION, vol. 9, p. 16-23, ISSN: 2042-9738, doi: 10.1049/iet-est.2018.5036
11	2019	Articolo in rivista Bocci L. S., Di Noia L. P., Rizzo R. (2019). Optimization of the energy storage of series-hybrid propelled aircraft by means of integer differential evolution. AEROSPACE, vol. 6, ISSN: 2226-4310, doi: 10.3390/aerospace6050059
12	2019	Contributo in Atti di convegno Di Noia L. P., Rizzo R. (2019). Analysis of Integration of PV Power Plant in Railway Power Systems. In: Proceedings of 2019 8th International Conference on Modern Power Systems, MPS 2019. p. 1-5, Institute of Electrical and Electronics Engineers Inc., ISBN: 978-1-7281-0750-9, Technical University of Cluj-Napoca, rou, 2019, doi: 10.1109/MPS.2019.8759720
13	2019	Contributo in Atti di convegno Cretu M., Czumbil L., Bargauan B., Stet D., Ceclan A., Polycarpou A., Rizzo R., Micu D. D. (2019). Modeling and Forecasting Energy Demand in TUCN Buildings. In: ICCEP 2019 - 7th International Conference on Clean Electrical Power: Renewable Energy Resources Impact. p. 253-258, Institute of Electrical and Electronics Engineers Inc., ISBN: 978-1-7281-1356-2, ita, 2019, doi: 10.1109/ICCEP.2019.8890113
14	2019	Contributo in Atti di convegno Celentano G., Lauria D., DI Noia L. P., Rizzo R. (2019). Three Winding Transformers for Smart Power Substations. In: Proceedings of 2019 8th International Conference on Modern Power Systems, MPS 2019. p. 1-6, Institute of Electrical and Electronics Engineers Inc., ISBN: 978-1-7281-0750-9, Technical University of Cluj-Napoca, rou, 2019, doi: 10.1109/MPS.2019.8759776



15	2019	Contributo in Atti di convegno Caruso M., Tommaso A. O. D., Giangrasso L., Marignetti F., Miceli R., Rizzo R. (2019). Differential leakage factor in electrical machines equipped with asymmetrical multiphase windings: A general investigation. In: 2019 14th International Conference on Ecological Vehicles and Renewable Energies, EVER 2019. p. 1-7, Institute of Electrical and Electronics Engineers Inc., ISBN: 978-1-7281-3703-2, mco, 2019, doi: 10.1109/EVER.2019.8813617
16	2019	Contributo in Atti di convegno Schettino G., Castiglia V., Livreri P., Miceli R., Viola F., Rizzo R. (2019). Novel Computational Method for Harmonic Mitigation for Three-phase Five-level Cascaded H-Bridge Inverter. In: 6th IEEE International Conference on Smart Grid, icSmartGrids 2018. p. 299-306, Institute of Electrical and Electronics Engineers Inc., ISBN: 978-1-5386-8484-9, jpn, 2018, doi: 10.1109/ISGWCP.2018.8634507
17	2019	Contributo in Atti di convegno Oceano A., Rodella G., Brusaglino G., Di Noia L. P., Rizzo R. (2019). Addressing minimum energy consumption and minimum CO2 emission for electric mobility. In: ICCEP 2019 - 7th International Conference on Clean Electrical Power: Renewable Energy Resources Impact. p. 358-363, Institute of Electrical and Electronics Engineers Inc., ISBN: 978-1-7281-1356-2, ita, 2019, doi: 10.1109/ICCEP.2019.8890221
18	2019	Contributo in Atti di convegno Cicarelli F., Di Noia L. P., Hamasaki S. -I., Rizzo R. (2019). Thermal analysis of DAB converter core used in hybrid aircraft propulsion system. In: ICCEP 2019 - 7th International Conference on Clean Electrical Power: Renewable Energy Resources Impact. p. 705-709, Institute of Electrical and Electronics Engineers Inc., ISBN: 978-1-7281-1356-2, ita, 2019, doi: 10.1109/ICCEP.2019.8890151
19	2019	Contributo in Atti di convegno Adefarati T., Potgieter S., Bansal R. C., Naidoo R., Rizzo R., Sanjeevikumar P. (2019). Optimization of PV-wind-battery storage microgrid system utilizing a genetic algorithm. In: ICCEP 2019 - 7th International Conference on Clean Electrical Power: Renewable Energy Resources Impact. p. 633-638, Institute of Electrical and Electronics Engineers Inc., ISBN: 978-1-7281-1356-2, ita, 2019, doi: 10.1109/ICCEP.2019.8890204
20	2018	Articolo in rivista Carpinelli, Guido, Rizzo, Renato, Caramia, Pierluigi, Varilone, Pietro (2018). Taguchi's method for probabilistic three-phase power flow of unbalanced distribution systems with correlated Wind and Photovoltaic Generation Systems. RENEWABLE ENERGY, vol. 117, p. 227-241, ISSN: 0960-1481, doi: 10.1016/j.renene.2017.10.048
21	2018	Articolo in rivista Andreotti A., Piantini A., Pierno A., Rizzo R. (2018). Lightning-induced voltages on complex power systems by using CiLIV: The effects of channel tortuosity. IEEE TRANSACTIONS ON POWER DELIVERY, vol. 33, p. 680-688, ISSN: 0885-8977, doi: 10.1109/TPWRD.2017.2685681



22	2018	Articolo in rivista Boscaino, V., Cipriani, G., Di Dio, V., Lauricella, R., Marcotulli, A., Miceli, R., Rizzo, R. (2018). Effects of post-filtering in grid-synchronization algorithms under grid faults. ELECTRIC POWER SYSTEMS RESEARCH, vol. 161, p. 167-176, ISSN: 0378-7796, doi: 10.1016/j.eprsr.2018.04.006
23	2018	Articolo in rivista Ciccarelli, Flavio, Di Noia, Luigi Pio, Rizzo, Renato (2018). Integration of photovoltaic plants and supercapacitors in tramway power systems. ENERGIES, vol. 11, ISSN: 1996-1073, doi: 10.3390/en11020410
24	2018	Articolo in rivista Caruso, Massimo, Di Tommaso, Antonino O., Miceli, Rosario, Rizzo, Renato (2018). Computer-aided analysis and design procedure for rotating induction machine magnetic circuits and windings. IET ELECTRIC POWER APPLICATIONS, vol. 12, p. 885-893, ISSN: 1751-8660, doi: 10.1049/iet-epa.2017.0310
25	2018	Articolo in rivista Caruso, Massimo, Di Tommaso, Antonino Oscar, Miceli, Rosario, Rizzo, Renato (2018). The use of slightly asymmetrical windings for rotating electrical machines. INTERNATIONAL TRANSACTIONS ON ELECTRICAL ENERGY SYSTEMS, vol. 28, ISSN: 2050-7038, doi: 10.1002/etep.2569
26	2018	Articolo in rivista Ruba, Mircea, Jurca, Florin, Czumbil, Levente, Micu, Dan D., Martis, Claudia, Polycarpou, Alexis, Rizzo, Renato (2018). Synchronous reluctance machine geometry optimisation through a genetic algorithm based technique. IET ELECTRIC POWER APPLICATIONS, vol. 12, p. 1-8, ISSN: 1751-8660, doi: 10.1049/iet-epa.2017.0455
27	2018	Contributo in Atti di convegno Cervone, A., Di Noia, L. P., Rizzo, R., Spina, I., Miceli, R. (2018). A Constrained Optimal Model Predictive Control for Mono Inverter Dual Parallel PMSM Drives. In: 7th International IEEE Conference on Renewable Energy Research and Applications, ICRERA 2018. p. 1501-1507, Institute of Electrical and Electronics Engineers Inc., ISBN: 9781538659823, fra, 2018, doi: 10.1109/ICRERA.2018.8567021
28	2018	Contributo in Atti di convegno Cervone, A., Di Noia, L. P., Rizzo, R., Spina, I. (2018). A Novel Current References Limitation Strategy in Mono-Inverter Dual PMSM Drives. In: Proceedings - 2018 23rd International Conference on Electrical Machines, ICEM 2018. p. 1353-1359, Institute of Electrical and Electronics Engineers Inc., ISBN: 9781538624777, Ramada Plaza Thraki, gre, 2018, doi: 10.1109/ICELMACH.2018.8507240
29	2018	Contributo in Atti di convegno Amditis, A., Theodoropoulos, T., Brusaglino, Giampiero, Oceano, Andrea, Rodella, Gianmaurizio, Rizzo, Renato, Di Noia, Luigi Pio (2018). Harmonized Standards for Electric Vehicle-Grid-User System. In: SPEEDAM 2018 - Proceedings: International Symposium on Power Electronics, Electrical Drives, Automation and Motion. p. 359-365, Institute of Electrical and Electronics Engineers Inc., ISBN: 9781538649411, ita, 2018, doi: 10.1109/SPEEDAM.2018.8445310



30	2018	Contributo in Atti di convegno Di Noia, L. P., Rizzo, R., Miceli, R., Piegari, L. (2018). Improving High Frequency Transformers behavior for DC-DC Converter Used in Electric Vehicles. In: 7th International IEEE Conference on Renewable Energy Research and Applications, ICRERA 2018. p. 1508-1513, Institute of Electrical and Electronics Engineers Inc., ISBN: 9781538659823, fra, 2018, doi: 10.1109/ICRERA.2018.8567012
31	2017	Articolo in rivista Di Noia, Luigi Pio, Rizzo, Renato (2017). Design of a five-phase permanent-magnet motor for the electric steering of an aircraft nose landing gear. IET ELECTRICAL SYSTEMS IN TRANSPORTATION, vol. 7, p. 327-333, ISSN: 2042-9738, doi: 10.1049/iet-est.2016.0073
32	2017	Articolo in rivista GUERRIERO, PIERLUIGI, Piegari, Luigi, RIZZO, RENATO, DALIENTO, SANTOLO (2017). Mismatch Based Diagnosis of PV Fields Relying on Monitored String Currents. INTERNATIONAL JOURNAL OF PHOTOENERGY, vol. 2017, p. 1-10, ISSN: 1110-662X, doi: 10.1155/2017/2834685
33	2017	Articolo in rivista Di Noia, Luigi Pio, Lauria, Davide, Mottola, Fabio, Rizzo, Renato (2017). Design optimization of distribution transformers by minimizing the total owning cost. INTERNATIONAL TRANSACTIONS ON ELECTRICAL ENERGY SYSTEMS, vol. 27, ISSN: 2050-7038, doi: 10.1002/etep.2397
34	2017	Articolo in rivista Del Pizzo, A., Di Noia, L. P., Rizzo, Renato (2017). Energy Storage System Sizing for a Twin Engine Four-Seat Aircraft Electrical Propulsion. INTERNATIONAL REVIEW OF AEROSPACE ENGINEERING, vol. 10, ISSN: 1973-7459, doi: 10.15866/irease.v10i6.11841
35	2017	Contributo in Atti di convegno Di Noia, Luigi Pio, Genduso, Fabio, Miceli, Rosario, Rizzo, Renato (2017). Optimal Integration of Hybrid Supercapacitor and IPT system for a Free Catenary Tramway. In: 2017 6th International Conference on Renewable Energy Research and Applications, ICRERA 2017. vol. 2017-, p. 949-954, Institute of Electrical and Electronics Engineers Inc., ISBN: 9781538620953, usa, 2017, doi: 10.1109/ICRERA.2017.8191199
36	2017	Contributo in Atti di convegno Rubino, L., Rubino, G., Marino, P., Di Noia, L. P., Rizzo, R. (2017). Universal Circuit Breaker for PV power plants. In: 2017 6th International Conference on Clean Electrical Power: Renewable Energy Resources Impact, ICCEP 2017. p. 750-755, Institute of Electrical and Electronics Engineers Inc., ISBN: 9781509046829, ita, 2017, doi: 10.1109/ICCEP.2017.8004775
37	2017	Contributo in Atti di convegno Rizzo, R., Schettino, G., Castiglia, V., Livreri, P., Miceli, R., Viola, F., Roscia, M. (2017). New approach for harmonic mitigation in single-phase five-level CHBMI with fundamental frequency switching. In: 2017 12th International Conference on Ecological Vehicles and Renewable Energies, EVER 2017. p. 1-6, Institute of Electrical and Electronics Engineers Inc., ISBN: 9781538616925, mco, 2017, doi: 10.1109/EVER.2017.7935963



38	2017	Contributo in Atti di convegno FASANO, ERNESTO, LAURIA, DAVIDE, MOTTOLA, FABIO, RIZZO, RENATO (2017). Analytical approach for the optimal design of combined energy storage devices in ship power system. In: 2017 6th International Conference on Clean Electrical Power: Renewable Energy Resources Impact, ICCEP 2017. p. 761-767, Institute of Electrical and Electronics Engineers Inc., ISBN: 9781509046829, ita, 2017, doi: 10.1109/ICCEP.2017.8004777
39	2017	Contributo in Atti di convegno Gawronska M., Sanna C., Rizzo R., Boi M., Damiano A. (2017). Outdoor characterisation of high concentration photovoltaic modules. In: 2017 AEIT International Annual Conference: Infrastructures for Energy and ICT: Opportunities for Fostering Innovation, AEIT 2017. vol. 2017-, p. 1-6, Institute of Electrical and Electronics Engineers Inc., ISBN: 978-8-8872-3737-5, ita, 2017, doi: 10.23919/AEIT.2017.8240556
40	2017	Contributo in Atti di convegno Munteanu, Calin, Purcar, Marius, Muresan, Teofil, Pop, Alina, Rizzo, Renato (2017). Study of the electromagnetic field distribution inside a HV/MV substation. In: Proceedings - 2017 International Conference on Modern Power Systems, MPS 2017. p. 1-4, Institute of Electrical and Electronics Engineers Inc., ISBN: 9781509065653, Technical University of Cluj-Napoca, rou, 2017, doi: 10.1109/MPS.2017.7974456
41	2017	Contributo in Atti di convegno Caruso, null, Di Tommaso, A. O., Mastromauro, R., Miceli, R., Rizzo, R., Viola, F. (2017). Cogging torque comparison of Interior Permanent Magnet Synchronous Generators with different stator windings. In: 2017 6th International Conference on Clean Electrical Power: Renewable Energy Resources Impact, ICCEP 2017. p. 778-783, Institute of Electrical and Electronics Engineers Inc., ISBN: 9781509046829, ita, 2017, doi: 10.1109/ICCEP.2017.8004780
42	2017	Contributo in Atti di convegno Amditis, A., Theodoropoulos, T., Brusaglino, G., Rizzo, R., Di Noia, L. P., Rodella, G., Oceano, A. (2017). Energy management optimization within the Electric Mobility system. In: 2017 6th International Conference on Clean Electrical Power: Renewable Energy Resources Impact, ICCEP 2017. p. 110-116, Institute of Electrical and Electronics Engineers Inc., ISBN: 9781509046829, ita, 2017, doi: 10.1109/ICCEP.2017.8004800
43	2016	Articolo in rivista Bracale, A., CARPINELLI, GUIDO, DE FALCO, PASQUALE, RIZZO, RENATO, Russo, A. (2016). New Advanced Method and Cost-based Indices Applied to Probabilistic Forecasting of Photovoltaic Generation. JOURNAL OF RENEWABLE AND SUSTAINABLE ENERGY, vol. 8, ISSN: 1941-7012, doi: 10.1063/1.4946798
44	2016	Articolo in rivista BRANDO, Gianluca, DANNIER, ADOLFO, DEL PIZZO, ANDREA, RIZZO, RENATO, SPINA, IVAN (2016). Torque Derivative Control (TDC) in Induction Motor Drives Supplied by Multilevel Inverters. IET POWER ELECTRONICS, vol. 9, p. 2249-2261, ISSN: 1755-4535, doi: 10.1049/iet-pel.2014.0958



45	2016	Contributo in Atti di convegno Di Noia L. P., Piegari L., Rizzo R. (2016). Evaluation of voltages and currents in an IPT system through Kalman Filter. In: IET Conference Publications. vol. 2016, p. 65 (6.), Institution of Engineering and Technology, ISBN: 978-1-78561-300-5, gbr, 2016, doi: 10.1049/cp.2016.0586
46	2016	Contributo in Atti di convegno BRANDO, Gianluca, DANNIER, ADOLFO, DI NOIA, LUIGI PIO, RIZZO, RENATO, Hamasaki, Shin Ichi (2016). Design of a PMSM for the electric steering of the nose landing gear. In: Proceedings of SPEEDAM 2016. ISBN: 9781509020676, Capri, Italy, 22 June 2016 - 24 June 2016, doi: 10.1109/SPEEDAM.2016.7525892
47	2016	Contributo in Atti di convegno Amditis A., Theodoropoulos T., Brusaglino G., Rizzo R., Di Noia L. P. (2016). Functional integration of electric vehicles within the energy supply network. In: 2016 International Symposium on Power Electronics, Electrical Drives, Automation and Motion, SPEEDAM 2016. p. 1190-1196, Institute of Electrical and Electronics Engineers Inc., ISBN: 978-1-5090-2067-6, ita, 2016, doi: 10.1109/SPEEDAM.2016.7526010
48	2016	Contributo in Atti di convegno Hamasaki S. -I., Hadano K., Tsuji M., Rizzo R. (2016). Control of modular multilevel converter for AC/AC conversion. In: 2016 International Symposium on Power Electronics, Electrical Drives, Automation and Motion, SPEEDAM 2016. p. 984-989, Institute of Electrical and Electronics Engineers Inc., ISBN: 978-1-5090-2067-6, ita, 2016, doi: 10.1109/SPEEDAM.2016.7525970
49	2016	Contributo in Atti di convegno Hamasaki S. -I., Hadano K., Tsuji M., Rizzo R. (2016). Control of modular multilevel converter for AC/AC conversion. In: 2016 International Symposium on Power Electronics, Electrical Drives, Automation and Motion, SPEEDAM 2016. p. 984-989, Institute of Electrical and Electronics Engineers Inc., ISBN: 978-1-5090-2067-6, ita, 2016, doi: 10.1109/SPEEDAM.2016.7525970
50	2016	Contributo in Atti di convegno Le Besnerais, J., BRANDO, Gianluca, DANNIER, ADOLFO, DEL PIZZO, ANDREA, DI NOIA, LUIGI PIO, RIZZO, RENATO, Castellini, L., D'Andrea, M. (2016). Analysis of noise reduction in a low speed and high torque PMSM with tooth concentrated windings. In: Proceedings of EVER 2016. ISBN: 9781509024643, Monaco, 6 Apr. 2016 - 8 Apr. 2016, doi: 10.1109/EVER.2016.7476351
51	2015	Articolo in rivista Piegari, Luigi, RIZZO, RENATO, SPINA, IVAN, Tricoli, Pietro (2015). Optimized adaptive perturb and observe maximum power point tracking control for photovoltaic generation. ENERGIES, vol. 8, p. 3418-3436, ISSN: 1996-1073, doi: 10.3390/en8053418
52	2015	Articolo in rivista Boscaino, Valeria, Capponi, Giuseppe, Miceli, Rosario, Galluzzo, Guisepppe Ricco, RIZZO, RENATO (2015). Comparison of models of fuel cells based on experimental data for the design of power electronics systems. IET RENEWABLE POWER GENERATION, vol. 9, p. 660-668, ISSN: 1752-1416, doi: 10.1049/iet-rpg.2014.0201



53	2015	Articolo in rivista BRANDO, Gianluca, DANNIER, ADOLFO, DEL PIZZO, ANDREA, RIZZO, RENATO, SPINA, IVAN (2015). Generalised look-up table concept for direct torque control in induction drives with multilevel inverters. IET ELECTRIC POWER APPLICATIONS, vol. 9, p. 556-567, ISSN: 1751-8660, doi: 10.1049/iet-epa.2014.0488
54	2015	Contributo in Atti di convegno RIZZO, RENATO, SPINA, IVAN, Tricoli, P. (2015). A single input dual buck-boost output reconfigurable converter for distributed generation. In: Proc. 5th International Conference on Clean Electrical Power: Renewable Energy Resources Impact. p. 767-774, IEEE, ISBN: 978-1-4799-8704-7, Taormina, 16-18 giugno, doi: 10.1109/ICCEP.2015.7177579
55	2015	Contributo in Atti di convegno DI NOIA, LUIGI PIO, RIZZO, RENATO, Vilaragut Llanes, M. (2015). Design of sensors for a Smart Power Substation. In: Proc. 4th International Conference on Renewable Energy Research and Applications. IEEE, Palermo, 22-25 novembre
56	2015	Contributo in Atti di convegno DEL PIZZO, ANDREA, DI NOIA, LUIGI PIO, LAURIA, DAVIDE, RIZZO, RENATO, Pisani, C. (2015). Stator Current Signature Analysis for Fault Diagnosis in Permanent Magnet Synchronous Wind Generators. In: Proc. 4th International Conference on Renewable Energy Research and Applications. p. 531-535, IEEE, Palermo, 22-25 novembre
57	2015	Contributo in Atti di convegno Di Noia, L. P., Lauria, D., Rizzo, R. (2015). A control strategy of a stand alone induction generator coupled with a diesel engine for distributed generation with renewable sources. In: 5th International Conference on Clean Electrical Power: Renewable Energy Resources Impact, ICCEP 2015. p. 448-453, Institute of Electrical and Electronics Engineers Inc., ISBN: 9781479987047, ita, 2015, doi: 10.1109/ICCEP.2015.7177546
58	2015	Contributo in Atti di convegno BRANDO, Gianluca, DI NOIA, LUIGI PIO, RIZZO, RENATO, LAURIA, DAVIDE, PISANI, COSIMO (2015). An advanced system for power supply and power quality improvement of isolated AC passive network. In: ICRERA 2015 Proceedings. p. 1446-1450, ISBN: 978147999828, Palermo, Italy, 22 Nov. 2015 - 25 Nov. 2015, doi: 10.1109/ICRERA.2015.7418647
59	2014	Articolo in rivista ANDREOTTI, AMEDEO, PIERNO, ANTONIO, V. Rakov, RIZZO, RENATO (2014). A comparison between analytical solutions for lightning-induced voltage calculation. ELEKTRONIKA IR ELEKTROTEHNIKA, vol. 20, p. 21-26, ISSN: 1392-1215, doi: 10.5755/j01.eee.20.5.2967
60	2014	Contributo in Atti di convegno G. Graditi, M. G. Ippolito, RIZZO, RENATO, E. Telaretti, G. Zizzo (2014). Technical-economical evaluation for distributed storage applications. An Italian case study for a medium-scale public facility. In: RPG 2014. vol. 2014, p. 1-7, Institution of Engineering and Technology, ISBN: 978-1-84919-917-9, Napoli, 24-25 settembre 2014, doi: 10.1049/cp.2014.0823



61	2014	Contributo in Atti di convegno Boscaino V., Ferraro V., Miceli R., Rizzo R. (2014). Achieving maximum power transfer in a multi-source renewable system. In: IET Conference Publications. vol. 2014, p. 3.2.1, Institution of Engineering and Technology, ISBN: 978-1-84919-917-9, ita, 2014, doi: 10.1049/cp.2014.0843
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Direzione di enti o istituti di ricerca di alta qualificazione internazionale

- Membro del Consiglio Direttivo, Segretario e Tesoriere SPEEDAM (Associazione Power Electronics, Electrical Drives and Automation)
dal 18-02-2008 a oggi
- Membro Consiglio Direttivo CMAEL (Associazione Convertitori Macchine e Azionamenti Elettrici).
2014-2017 e 2020 ad oggi
dal 01-01-2014 a oggi
- Presidente ICCEP (Associazione Clean Electrical Power)
dal 24-04-2014 a oggi
- Membro Consiglio Direttivo EAEEIE (European Association for Education in Electrical and Information Engineering).
dal 01-01-2015 al 01-01-2018

Responsabilità scientifica per progetti di ricerca internazionali e nazionali, ammessi al finanziamento sulla base di bandi competitivi che prevedano la revisione tra pari

- Socrates EC - Intensive Programme “High Speed Railway Vehicles”.
Commission of the European Union.
Responsabile scientifico Unina
Durata 24 mesi (le date di seguito riportate sono indicative dell'anno inizio e fine attività)
dal 01-01-2001 al 01-01-2003
- Progetto di ricerca “Numerical Analysis of the electromagnetic Interference Phenomena between Traction Lines and Buried Pipelines”.
Finanziato dal Ministero Affari Esteri nell’ambito dell’Accordo Cooperazione Scientifica e Tecnologica Italia-Romania.
Responsabile scientifico Unina
Durata 24 mesi (le date di seguito riportate sono indicative dell'anno inizio e fine attività)
dal 01-01-2001 al 01-01-2003
- NATO Research Collaborative Linkage Project-PST.CLG.978487: “New Methods & Design Tools for Analysis & Modelling of Electromagnetic Interference Phenomena”.
NATO funds.
Responsabile scientifico Unina
Durata 24 mesi (le date di seguito riportate sono indicative dell'anno inizio e fine attività)
dal 01-01-2002 al 01-01-2004
- Project: “New Vision of Engineering Economy Teaching (VISION)”.
Commission of the European Union.
Coordinatore progetto europeo, grant holder
dal 15-02-2004 al 14-02-2005
- NATO Research Collaborative Linkage Grants–CLG, project nr. CBP.EAP.CLG. 982075: “Advanced Analysis Techniques & Tools for Optimization of Micro/Nano Electro-Magnetic Systems MEMS-NEMS”. NATO funds.
Responsabile scientifico
Durata 24 mesi (le date di seguito riportate sono indicative dell'anno inizio e fine attività)
dal 01-01-2005 al 01-01-2007
- Bilateral Cooperation Program “Development of new-advanced 3D analysis techniques and software tools for optimization of micro-electro-mechanical devices”.
Progetto di ricerca finanziato dal Ministero Affari Esteri.
PI per Unina



- Durata 24 mesi (le date di seguito riportate sono indicative dell'anno inizio e fine attività)
dal 01-01-2006 al 01-01-2008
- Thematic Network Project EIE Surveyor: “Reference point for Electrical and Information Engineering in Europe”.
Commission of the European Union.
Responsabile scientifico Unina
Durata 36 mesi (le date di seguito riportate sono indicative dell'anno inizio e fine attività)
dal 01-01-2007 al 01-01-2010
 - Getra SpA. Convenzione di ricerca “Calo di massa degli oli minerali impiegati nei trasformatori di distribuzione MT-BT”.
Responsabile convenzione
dal 27-06-2007 al 27-08-2007
 - Convenzione di ricerca Tecno System “Valutazione tecnico-economica della realizzazione di linee di automazione per impianto industriale Barilla di Marcianise (CE)”.
Responsabile scientifico
(le date di seguito riportate sono indicative dell'anno inizio e fine attività)
dal 01-01-2009 al 31-12-2009
 - “Attuatori meccatronici ad elevate prestazioni per applicazioni aeronautiche”. PON01_02886 MIUR, Ministero Istruzione Università Ricerca.
Responsabile attività
Durata 48 mesi (le date di seguito riportate sono indicative dell'anno inizio e fine attività)
dal 01-01-2011 al 01-01-2015
 - Convenzione di ricerca tra il Dipartimento DIETI Università di Napoli Federico II e DIEI Università dell’Aquila “Modellazione, analisi, dimensionamento, assistenza alla realizzazione e alla caratterizzazione al banco di motori brushless a magneti permanenti e a riluttanza variabile (sincroni e “switched reluctance”) con relativi sistemi di controllo per impieghi in attuatori ad elevate prestazioni dinamiche ed elevati valori di potenza (e coppia) per unità di peso e di volume, destinati ad impieghi aeronautici”. Responsabile scientifico
(le date di seguito riportate sono indicative dell'anno inizio e fine attività)
dal 01-01-2012 al 01-01-2013
 - Strategic Alignment of Electrical and Information Engineering in European Higher Education Institutions.
European Commission.
Coordinator Unina
Durata 36 mesi (le date di seguito riportate sono indicative dell'anno inizio e fine attività)
dal 01-10-2012 al 30-09-2015
 - Convenzione di ricerca tra Dipartimento DIETI dell’Università di Napoli Federico II e Vestas su “Verifica dello stato di integrità, fisica e funzionale, di 19 trafo SGB in resina 0.690/30 kV installati nella navicella di altrettanti aerogeneratori presso parco eolico di 38 MW in Rignano Garganico”.
Responsabile scientifico
(le date di seguito riportate sono indicative dell'anno inizio e fine attività)
dal 01-01-2013 al 01-01-2014
 - “Stazioni fotovoltaiche di sostegno per la rete tranviaria di Napoli”. Regione Campania L.R. 5/2002.
Responsabile scientifico
(le date di seguito riportate sono indicative dell'anno inizio e fine attività)
dal 01-01-2017 al 01-01-2018

Direzione o partecipazione a comitati editoriali di riviste, collane editoriali, enciclopedie e trattati di riconosciuto prestigio

- Acta Electrotehnica - Edited by Romanian Academy of Technical Sciences
(Editorial board member)
dal 01-01-1994 a oggi
- IET Renewable Power Generation (Associate Editor)
dal 01-01-2013 a oggi

Incarichi di insegnamento o di ricerca (fellowship) presso qualificati atenei e istituti di ricerca esteri o sovranazionali



- Intensive course "Electromechanical Energy Conversion" alla Technical University of Cluj-Napoca (Romania) dal 01-08-1999 al 30-09-1999
- Intensive course "Direct torque control for asynchronous drives" alla Technical University of Cluj-Napoca (Romania) dal 01-02-2000 al 20-02-2000
- Intensive course "Multilevel converters" alla Technical University of Cluj-Napoca (Romania) dal 01-09-2000 al 15-09-2000
- Seminar on "Research activities on power electronics and electrical machines and drives" Tennessee Tech University (USA) dal 01-09-2007 al 14-09-2007
- Intensive course "Electric Machines Design" alla Technical University of Cluj-Napoca (Romania) dal 12-11-2008 al 19-11-2008
- Seminar "Power Electronic Transformer (PET)" Tennessee Tech University (USA) dal 01-12-2011 al 15-12-2011
- Intensive course "Power Electronics for renewable energy systems" presso Universidad Carlos III de Madrid (Spain) dal 20-09-2016 al 30-09-2016

Premi e riconoscimenti per l'attività scientifica, inclusa l'affiliazione ad accademie di riconosciuto prestigio nel settore

- Professore Honoris Causa della Faculty of Electrical Engineering, Technical University Cluj-Napoca (Romania). dal 23-12-1999 a oggi
- Gold medal FECU for research cooperation (Faculty of Engineering University of Cairo). dal 01-01-2005 a oggi
- IEEE Senior Member dal 01-01-2006 a oggi
- Certificate of appreciation University of South Carolina, SC-USA for the seminar: The use of renewable energy sources in the era of distributed generation, 2010. dal 11-11-2010 a oggi
- Premiato da IET come miglior articolo di ricerca nel biennio 2010-2012, 2012 IET Renewable Power Generation Premium Award, best research paper published during the last two years: Adaptive Perturb and Observe Algorithm for Photovoltaic Maximum Power Point Tracking. R. Rizzo, L. Piegari. IET RENEWABLE POWER GENERATION, July 2010 vol. 4, p. 317-328. dal 22-11-2012 a oggi
- Award of the best research team for the high quality paper: Numerical and experimental validation of a LiFePO₄ battery model at steady state and transient operations. Presentato nella IEEE 8th International Conference and Exhibition on Ecological Vehicles and Renewable Energies (EVER), Montecarlo, 2013. dal 28-03-2013 a oggi
- Certificate of appreciation al II Congreso Internacional de Ingeniería Eléctrica y Energías no Convencionales. Arequipa (Perù), relazione invitata su Direct Current Smart Micro-Grids for distributed Generation with Renewable sources. 2014 dal 15-12-2014 a oggi

Altri titoli che contribuiscano a una migliore definizione del profilo scientifico

- Partecipazione a Comitati di Conferenze Internazionali e Nazionali
3rd IET Renewable Power Generation RPG (Conference Chairman)
IEEE International Conference on Clean Electrical Power ICCEP (Founder, Chairman of Conference)
Railway Traction Systems Conference RTS (Founder, Conference Manager)



- IEEE International Conference on Ecological Vehicles & Renewable Energies EVER
(Scientific Program Committee Member)
- IEEE International Conference on Renewable Energy Research and Applications ICRERA
(Program Chair)
- IEEE Electrical Systems for Aircraft, Railway and Ship Propulsion ESARS
(Founder, Conference Manager, Scientific Committee Member)
- IEEE International Symposium on Power Electronics Electrical Drives Automation and Motion
SPEEDAM
(Organizing Committee Member)
- IET Renewable Power Generation Conference RPG
(Technical Committee Member)
- IES IEEE Modern Power Systems MPS
(International Steering Committee Member)
- International Conference on Renewable Energy and Power Quality ICREPQ
(International Scientific Committee Member)
- Portland International Conference on Management of Engineering & Technology PICMET
(Scientific Committee Member)
- International Conference on Energy Science and Electrical Engineering ICESEE
(Technical Committee Member)
- Conference Alternating Current Electrical Drives ACED
(Member of the International Program Committee)
- Conference European Association for Education in Electrical and Information Engineering EAEEIE
(Scientific Committee Member)
- International Conference on Green Energy Technology ICGET
(Technical Committee Member, Guest Editor)
- International Symposium Research and Education in Innovation Era, Mathematics and Computer
Science ISREIE
(Scientific Committee Member)
- CAD in Electromagnetism and Electrical Circuits, CADEMEC.
(Organizing Committee Member)
- Conference "The Evolution of Electrical Science and Information Technology in our Century", 1999.
(Conference Secretary)
- Meeting INEIT-MUCON "Innovations for Education in Information Technology through Multimedia
and Communication Network", 1999.
(Organizer)
- Seminario Interattivo ANAE Azionamenti Elettrici: evoluzione tecnologica e problematiche emergenti
(Organizing Committee Member) 2000-2010
- Convegno Nazionale "Domotica e Building Automation" 2005
(Comitato Scientifico e Organizzatore)
- dal 01-01-1995 a oggi
- **Membro del Collegio dei Docenti di Dottorato in Ingegneria Elettrica:**
Università di Napoli Federico II,
Politecnico de L'Avana A. Echeverria (Cuba).
Membro di Commissioni per l'esame finale del Dottorato presso diverse Università, tra le quali:
Presidente della Commissione giudicatrice dottorato di ricerca per il conferimento del DdR in
Ingegneria Elettrica, Universidad Carlos III di Madrid (Spagna) 2016,
Member of the board of examiners of PhD Thesis, National Institute of Technology Urapur (India)
2011,
Componente Commissione Giudicatrice per il conferimento del titolo di Dottore di Ricerca in
Ingegneria Industriale e dell'Informazione e di Economia- curriculum Ingegneria Elettrica ed
Elettronica XXIX ciclo, Università dell'Aquila, a.a. 2016/2017,
Componente Commissione giudicatrice dottorato di ricerca in Ingegneria Elettrica e dell'Informazione,
esami finali XXVIII ciclo, Politecnico di Bari. 2016,
Componente Commissione Giudicatrice per il conferimento del titolo di Dottore di Ricerca in
Ingegneria Industriale e dell'Informazione e di Economia - curriculum Ingegneria e Architettura –
indirizzo Ingegneria dell'Informazione, Università di Trieste. Sessione 2015/2016 ,
Componente Commissione Giudicatrice per il conseguimento del titolo di Dottore di Ricerca in
Ingegneria Elettrica, Politecnico di Milano, a.a. 2015/2016 ,



Componente Commissione giudicatrice per gli esami di ammissione ai corsi di dottorato di ricerca in Energia e Tecnologie dell'Informazione XXXI Ciclo. Università di Palermo, a.a. 2015/2016,
Componente Commissione giudicatrice dottorato di ricerca per il conferimento del DdR in Conversione dell'energia elettrica XXVI e XXVII ciclo, Seconda Università di Napoli. 2014,
Componente Commissione giudicatrice dottorato di ricerca in ingegneria elettrica, esami finali XXIV ciclo, Università di Palermo. 2014,
Componente Commissione giudicatrice dottorato di ricerca in ingegneria elettrica e dell'informazione, esami finali XI ciclo, Università di Palermo. 2009,
Incaricato valutazione esterna della tesi di dottorato (DM 45/2013, art. 8, comma 6) External assessment of PhD thesis Cassino Collegio docenti Ingegneria Elettrica XXVIII Ciclo, dal 01-01-2005 a oggi

