

PERSONAL
INFORMATION**Marco di Benedetto**✉ marco.dibenedetto@uniroma3.it

WORK EXPERIENCE

02/11/2019 - In progress	Research Fellow Roma Tre University, Via della Vasca Navale, n° 79, 00146, Rome (http://www.uniroma3.it).
01/11/2018 - 31/10/2019	Research Fellow Roma Tre University, Via della Vasca Navale, n° 79, 00146, Rome (http://www.uniroma3.it). Design of fast charging station for electric vehicle charging stations.
08/07/2019 - 30/10/2019	Senior Lecturer School of Engineering & Physics of the University of South Pacific - USP. Course Manager in "Power Electronics" and "Power Electronics for distributed Generation and Renewable Energy System"
02/11/2017 - 1/07/2019	Guest Lecturer University of Guglielmo Marconi, Via Plinio, 44, 00193 Roma RM (https://www.unimarconi.it). Course Manager and Lecturer in Electrical Engineering in the field of in Computer Engineering
08/07/2019 - 30/10/2019	Guest Lecturer School of Engineering & Physics of the University of South Pacific - USP. Course Manager in "Graphical Programming for DSP-FPGA based Control Platforms in Power Electronics Systems"
01/11/2017 - 31/10/2018	Research Fellow Roma Tre University, Via della Vasca Navale, n° 79, 00146, Rome (http://www.uniroma3.it). Design and testing of the 5-Level AC-AC prototype converter.
01/04/2017 - 30/10/2017	Temporary work assignment, Roma Tre University, Via della Vasca Navale, n° 79, 00146, Rome (http://www.uniroma3.it). Analytical and real model calculation for the identification of power loss into inverter with SiC devices.
01/10/2015 - 01/12/2015	Temporary work assignment, Roma Tre University, Via della Vasca Navale, n° 79, 00146, Rome (http://www.uniroma3.it). Test on power electronic modules for multilevel applications.
01/07/2014 - 01/10/2014	Coordinated and Continuous Collaboration, Roma Tre University, Via della Vasca Navale, n° 79, 00146, Rome (http://www.uniroma3.it). Power losses analysis for the 5 levels power electronics active rectifier.

EDUCATION AND TRAINING

01/11/2014 - 23/04/2018	Ph. D. in Mechanical and Industrial Engineering , Roma Tre University, Via della Vasca Navale, n° 79, 00146, Rome (http://www.uniroma3.it).
01/06/2016 - 30/10/2016	Training activity HUAWEI TECHNOLOGIES Duesseldorf GmbH (Energy Competence Center Europe -ECCE- Nuremberg/Munich), Training in Power electronic and Drive fields
2011/2012 - 2013/2014	Master degree in Electronic Engineering , with top marks and highest honors. University of Rome Tor Vergata, Via del Politecnico, 1, 00133 Roma (http://ing.uniroma2.it/). Thesis: "Phase Compensation Resonant Controllers with load adaptation for stand-alone applications: theoretical and experimental analysis". Advisors: Prof. S. Bifaretti (University of Rome Tor Vergata), Prof. A. Lidozzi (Roma Tre University).

MEMBERSHIPS AND INTERNATIONAL ACTIVITIES

2015 - Today	I am serving as reviewer for 1) Annual conference of the Industrial Electronics Society (IECON), 2) Energy Conversion Congress and Exposition (ECCE), 3) European Conference on Power Electronics and Applications (EPE), 4) Transactions on Industry Applications, reviewer, 5) IEEE Journal of Power Electronics, 6) Electrical Systems in Transportation (IET).
2017 - Today	IEEE Member, IEEE Young Professionals, IEEE Industry Applications Society.
29/01/2018 - Today	Associate Editor of the Electrical Systems in Transportation (IET) international journal.
10/09/2018 - 13/09/2018	Track chair of the "4th International Forum on Research and Technologies for Society and Industry - RTSI", Palermo.
29/09/2019 - 03/10/2019	Session Chair at the IEEE Energy Conversion Congress and Exposition (ECCE) 2019. Session: "Single Phase Multilevel Converters 2 (S136)".
11/10/2020 - 15/10/2020	Session Chair at the IEEE Energy Conversion Congress and Exposition (ECCE) 2020. Session: "Multilevel Converters 1 (S19)".
10/10/2021 - 14/10/2021	Session Chair at the IEEE Energy Conversion Congress and Exposition (ECCE) 2021. Session: "Multilevel Converters - Topologies - 2 (E21)".
2019 - Today	Topic Chair in the sub-track E08 "Multilevel Converters" at IEEE Energy Conversion Congress and Exposition (ECCE) 2020 and 2021.

TEACHING AND RESEARCH ACTIVITIES

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| Teaching activity | <ul style="list-style-type: none"> • 2019 - Today. Master's degree in mechanical engineering, ROMA TRE University, Electronic Systems for Mechanical Engineering, Course Manager and Lecturer. • 2017 - Today. Master's degree in Electronic Engineering, ROMA TRE University, Power Electronics, Teaching Assistant. • 2017 - 2019. Bachelor's degree in Electronic Engineering, University of Guglielmo Marconi, Electrotechnical, Course Manager and Lecturer. • 07/2019 - 10/2019. Master's degree in engineering, University of South Pacific, Power Electronics, Course Manager and Lecturer. • 07/2019 - 10/2019. Master's degree in engineering, University of South Pacific, Power Electronics for distributed Generation and Renewable Energy System, Course Manager and Lecturer. • 2015 - Today. Master's degree in Electronic Engineering, ROMA TRE University, Design of power electronic converters, Teaching Assistant. • 2015 - Today. Master and bachelor's degree in mechanical engineering, ROMA TRE University, Laboratory of Electrical Applications and Measures (course is endorsed as National Instruments LabVIEW® Academy class), Teaching Assistant. |
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PRIZES AND AWARDS

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| 01/02/2022 - 01/02/2031 | National Scientific Qualification for Associate Professor in the Italian scientific field ING-IND/32 - Power Converter, Electrical Machines and Drives |
| 30/10/2020 | First Industrial Power Converters Committee (IPCC) Prize Paper Award
M. di Benedetto, A. Lidozzi, L. Solero, F. Crescimbinì and P. J. Grbovic, "Failure Mode Analysis of the 3-Phase 5-Level E-Type Converter," 2019 IEEE Energy Conversion Congress and Exposition (ECCE), Baltimore, MD, USA, 2019, pp. 6396-6403. |
| 27/06/2018 | Best Young Researcher Award,
The award has been received during a dedicated poster session at the CAMEL 2018 (CONVERTITORI, MACCHINE E AZIONAMENTI ELETTRICI - Power Electronics, Electrical Machines, Electrical Drives) Annual Meeting. |
| 3/10/2017 | Student Travel Grant,
received during the IEEE Energy Conversion Congress and Exposition 2017. |

- [1] A. Lidozzi, L. Solero, F. Crescimbin, M. di Benedetto and S. Bifaretti, "Resonant controllers with three-degree of freedom for AC power electronic converters," 2014 IEEE Energy Conversion Congress and Exposition (ECCE), Pittsburgh, PA, 2014, pp. 1663-1670
- [2] M. di Benedetto, A. Lidozzi, L. Solero, P. J. Grbovic and S. Bifaretti, "ISOP DC-DC converters equipped 5-level unidirectional T-Rectifier for aerospace applications," 2015 IEEE Energy Conversion Congress and Exposition (ECCE), Montreal, QC, 2015, pp. 1694-1700.
- [3] M. Di Benedetto, A. Lidozzi, L. Solero, F. Crescimbin and P. J. Grbovic, "Low frequency state-space model for the five-level unidirectional T-rectifier," 2015 IEEE Energy Conversion Congress and Exposition (ECCE), Montreal, QC, 2015, pp. 5102-5109.
- [4] Lidozzi, M. di Benedetto, S. Bifaretti, L. Solero and F. Crescimbin, "Resonant Controllers with Three Degrees of Freedom for AC Power Electronic Converters," in **IEEE Transactions on Industry Applications**, vol. 51, no. 6, pp. 4595-4604, Nov.-Dec. 2015.
- [5] Lidozzi, M. di Benedetto, L. Solero, F. Crescimbin and P. J. Grbovic, "Fault tolerance analysis for the 5-level unidirectional T-Rectifier," 2016 IEEE Energy Conversion Congress and Exposition (ECCE), Milwaukee, WI, 2016, pp. 1-7.
- [6] M. Di Benedetto, A. Lidozzi, L. Solero, F. Crescimbin and P. J. Grbovic, "Small-signal model for the ISOP DC-DC converters in the 5-level T-rectifier," 2016 IEEE Energy Conversion Congress and Exposition (ECCE), Milwaukee, WI, 2016, pp. 1-8.
- [7] M. di Benedetto, A. Lidozzi, L. Solero, F. Crescimbin and P. J. Grbovic, "Five-level back to back E-Type converter for high speed gen-set applications," IECON 2016 - 42nd Annual Conference of the IEEE Industrial Electronics Society, Florence, 2016, pp. 3409-3414.
- [8] A. Lidozzi, M. di Benedetto, V. Sabatini, L. Solero and F. Crescimbin, "Towards LabVIEW and system on module for power electronics and drives control applications," IECON 2016 - 42nd Annual Conference of the IEEE Industrial Electronics Society, Florence, 2016, pp. 4995-5000.
- [9] M. di Benedetto, A. Lidozzi, L. Solero, F. Crescimbin and P. J. Grbovic, "Low-Frequency State-Space Model for the Five-Level Unidirectional T-Rectifier," in **IEEE Transactions on Industry Applications**, vol. 53, no. 2, pp. 1127-1137, March-April 2017.
- [10] M. di Benedetto, L. Solero, F. Crescimbin, A. Lidozzi and P. J. Grbović, "5-Level E-type back to back power converters – A new solution for extreme efficiency and power density," 2017 13th Conference on Ph.D. Research in Microelectronics and Electronics (PRIME), Giardini Naxos, 2017, pp. 341-344.
- [11] F. Crescimbin, S. Bifaretti, M. di Benedetto, A. Lidozzi, S. Pipolo and L. Solero, "Variable speed generating unit for vehicle on-board applications," 2017 International Conference of Electrical and Electronic Technologies for Automotive, Torino, 2017, pp. 1-5.
- [12] M. di Benedetto, A. Lidozzi, L. Solero, F. Crescimbin and P. J. Grbovic, "Small-Signal Model of the Five-Level Unidirectional T-Rectifier," in **IEEE Transactions on Power Electronics**, vol. 32, no. 7, pp. 5741-5751, July 2017.
- [13] M. di Benedetto, A. Lidozzi, L. Solero, F. Crescimbin and P. J. Grbovic, "Analysis and design of LC filters for the 5-level 3-phase Back to Back E-Type Converter," 2017 IEEE Energy Conversion Congress and Exposition (ECCE), Cincinnati, OH, 2017, pp. 3816-3821.
- [14] M. di Benedetto, A. Lidozzi, L. Solero, F. Crescimbin and P. J. Grbovic, "Performance assessment of the 5-level 3-phase back to back E-type converter," 2017 IEEE Energy Conversion Congress and Exposition (ECCE), Cincinnati, OH, 2017, pp. 2106-2113.

- [15] V. Sabatini, L. Bigarelli, M. di Benedetto, A. Lidozzi, L. Solero and G. Brown, "FPGA-based Model Predictive Control for High Frequency Variable Speed Generating Units," 2018 International Symposium on Power Electronics, Electrical Drives, Automation and Motion (SPEEDAM), Amalfi, Italy, 2018, pp. 1364-1369.
- [16] M. di Benedetto, A. Lidozzi, L. Solero, F. Crescimbinì and P. J. Grbovic, "Analysis and Design of 5-Level E-Type ISOP Rectifier for High-Speed Gen-Set Applications," 2018 International Symposium on Power Electronics, Electrical Drives, Automation and Motion (SPEEDAM), Amalfi, Italy, 2018, pp. 667-672.
- [17] M. di Benedetto, A. Lidozzi, L. Solero, F. Crescimbinì and P. J. Grbovic, "Concurrent Control for Three-Phase Four-Wire Five Levels E-Type Inverter for Microgrids," 2018 IEEE Energy Conversion Congress and Exposition (ECCE), Portland, OR, 2018, pp. 202-207.
- [18] M. di Benedetto, A. Lidozzi, L. Solero, M. Tang, A. Formentini and P. Zanchetta, "Disturbance-Observer Assisted Controller for Stand-Alone Four-Leg Voltage Source Inverter," 2018 IEEE Energy Conversion Congress and Exposition (ECCE), Portland, OR, 2018, pp. 2265-2270.
- [19] L. Bigarelli, A. Lidozzi, M. di Benedetto, L. Solero, S. Odhano and P. Zanchetta, "Modulated Optimal Model Predictive Control for Variable Speed Gen-Sets," 2018 IEEE Energy Conversion Congress and Exposition (ECCE), Portland, OR, 2018, pp. 6859-6865.
- [20] M. di Benedetto, A. Lidozzi, L. Solero, F. Crescimbinì and P. J. Grbović, "Five-Level E-Type Inverter for Grid-Connected Applications," in **IEEE Transactions on Industry Applications**, vol. 54, no. 5, pp. 5536-5548, Sept.-Oct. 2018.
- [21] F. Ortenzi, M. Pasquali, G. Pede, A. Lidozzi, M. di Benedetto, "Ultra-fast charging infrastructure for vehicle on-board ultracapacitors in urban public transportation applications", 31st International Electric Vehicle Symposium and Exhibition, EVS 2018 and International Electric Vehicle Technology Conference 2018, EVTeC 2018; Kobe Convention Center Kobe City; Japan;
- [22] V. Sabatini, M. Di Benedetto and A. Lidozzi, "Synchronous Adaptive Resolver-to-Digital Converter for FPGA-Based High-Performance Control Loops," in **IEEE Transactions on Instrumentation and Measurement**, vol. 68, no. 10, pp. 3972-3982, Oct. 2019.
- [23] C. M. Verrelli, S. Bifaretti, E. Carfagna, A. Lidozzi, L. Solero, F. Crescimbinì, M. di Benedetto, "Speed Sensor Fault Tolerant PMSM Machines: From Position-Sensorless to Sensorless Control," in **IEEE Transactions on Industry Applications**, vol. 55, no. 4, pp. 3946-3954, July-Aug. 2019.
- [24] M. di Benedetto, A. Lidozzi, L. Solero, F. Crescimbinì and P. J. Grbović, "Low Volume and Low Weight 3-Phase 5-Level Back to Back E-Type Converter," in **IEEE Transactions on Industry Applications**, vol. 55, no. 6, pp. 7377-7388, Nov.-Dec. 2019.
- [25] F. Pulsinelli, M. di Benedetto, A. Lidozzi, L. Solero and F. Crescimbinì, "Power Losses Distribution in SiC Inverter Based Electric Motor Drives," in **IEEE Transactions on Industry Applications**, vol. 55, no. 6, pp. 7843-7853, Nov.-Dec. 2019.
- [26] M. d. Benedetto, A. Lidozzi, L. Solero, F. Crescimbinì and P. J. Grbović, "Symmetrical Three-Phase 7-Level E-Type Inverter for PV Applications," 2019 International Conference on Clean Electrical Power (ICCEP), Otranto, Italy, 2019, pp. 419-426.
- [27] F. Pulsinelli, M. di Benedetto, A. Lidozzi, L. Solero and F. Crescimbinì, "Experimental Characterization of the Passive Soft-Switching Snubber Inverter in SiC Motor Drive Applications," 2019 21st European Conference on Power Electronics and Applications (EPE '19 ECCE Europe), Genova, Italy, 2019, pp. P.1-P.9.

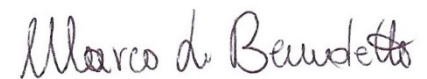
- [28] L. Bigarelli, A. Lidozzi, M. di Benedetto, L. Solero and S. Bifaretti, "Model Predictive Energy Management for Sustainable Off-Shore Oil and Gas Platforms," 2019 21st European Conference on Power Electronics and Applications (EPE '19 ECCE Europe), Genova, Italy, 2019, pp. P.1-P.10.
- [29] M. L. Mendola, M. di Benedetto, A. Lidozzi, L. Solero and S. Bifaretti, "Four-Port Bidirectional Dual Active Bridge Converter for EVs Fast Charging," 2019 IEEE Energy Conversion Congress and Exposition (ECCE), Baltimore, MD, USA, 2019, pp. 1341-1347.
- [30] M. d. Benedetto, A. Lidozzi, L. Solero, F. Crescimbin and P. J. Grbovic, "Failure Mode Analysis of the 3-Phase 5-Level E-Type Converter," 2019 IEEE Energy Conversion Congress and Exposition (ECCE), Baltimore, MD, USA, 2019, pp. 6396-6403.
- [31] M. di Benedetto, A. Lidozzi, D. M. Kumar, H. K. Mudaliar and M. Cirrincione, "Control Strategy for Flywheel Energy Storage Systems on a Three-Level Three-Phase Back-To-Back Converter," 2019 International Aegean Conference on Electrical Machines and Power Electronics (ACEMP) & 2019 International Conference on Optimization of Electrical and Electronic Equipment (OPTIM), Istanbul, Turkey, 2019, pp. 372-376.
- [32] Ortenzi, F.; Pasquali, M.; Proisini, P.P.; Lidozzi, A.; Di Benedetto, M. Design and Validation of Ultra-Fast Charging Infrastructures Based on Supercapacitors for Urban Public Transportation Applications. **Energies** 2019, 12, 2348.
- [33] L. Bigarelli, M. di Benedetto, A. Lidozzi, L. Solero, S. A. Odhano and P. Zanchetta, "PWM-Based Optimal Model Predictive Control for Variable Speed Generating Units," in **IEEE Transactions on Industry Applications**, vol. 56, no. 1, pp. 541-550, Jan.-Feb. 2020.
- [34] S. Menicanti, M. di Benedetto, A. Lidozzi, L. Solero and F. Crescimbin, "Recovery of Train Braking Energy in 3 kV DC Railway Systems: a case of study," 2020 International Symposium on Power Electronics, Electrical Drives, Automation and Motion (SPEEDAM), Sorrento, Italy, 2020, pp. 589-594.
- [35] M. di Benedetto, A. Lidozzi, L. Solero, F. Crescimbin and S. Bifaretti, "SiC-based Four-Port DAB Converter for High Power Density Fast Charging Station," 2020 International Symposium on Power Electronics, Electrical Drives, Automation and Motion (SPEEDAM), Sorrento, Italy, 2020, pp. 120-125.
- [36] D. Curto, M. di Benedetto, V. Franzitta, A. Lidozzi and L. Solero, "Power Conversion System for Improved Linear Generator in sea wave energy harvesting applications," Global Oceans 2020: Singapore - U.S. Gulf Coast, 2020, pp. 1-6.
- [37] L. Bigarelli, M. di Benedetto, A. Lidozzi, F. Crescimbin and P. J. Grbović, "Design Issues for Real-Time PMSM Power-Hardware-in-the-Loop: Analysis at Switching Frequency," 2020 IEEE Energy Conversion Congress and Exposition (ECCE), Detroit, MI, USA, 2020, pp. 6298-6305.
- [38] L. Bigarelli, M. di Benedetto, A. Lidozzi, L. Solero and P. J. Grbović, "Design Issues for a Real-Time PMSM Power-Hardware-in-the-Loop: Analysis at Fundamental Frequency," 2020 IEEE Energy Conversion Congress and Exposition (ECCE), Detroit, MI, USA, 2020, pp. 6306-6311.
- [39] M. di Benedetto, A. Lidozzi, L. Solero, F. Crescimbin and S. Bifaretti, "Hardware design of SiC-based Four-Port DAB Converter for Fast Charging Station," 2020 IEEE Energy Conversion Congress and Exposition (ECCE), Detroit, MI, USA, 2020, pp. 1231-1238.
- [40] M. di Benedetto, A. Lidozzi, L. Solero, F. Crescimbin and P. J. Grbović, "Design of High-Power Density Interleaved 3-Phase 5-Level E-Type Back-to-Back Converter," 2020 IEEE Energy Conversion Congress and Exposition (ECCE), Detroit, MI, USA, 2020, pp. 3957-3964.

- [41] M. di Benedetto, A. Lidozzi, L. Solero, F. Crescimbinì and P. J. Grbović, "Reliability and Real-Time Failure Protection of the Three-Phase Five-Level E-Type Converter," in **IEEE Transactions on Industry Applications**, vol. 56, no. 6, pp. 6630-6641, Nov.-Dec. 2020.
- [42] M. di Benedetto, Lidozzi, A., Solero, L., Crescimbinì, F. and Grbović, P.J. (2020), Symmetrical three-phase seven-level E-type inverter for PV systems: design and operation. **IET Renew. Power Gener.**, 14: 2852-2863.
- [43] di Benedetto, M.; Ortenzi, F.; Lidozzi, A.; Solero, L. 2021. "Design and Implementation of Reduced Grid Impact Charging Station for Public Transportation Applications". **World Electr. Veh. J.** 12, no. 1: 28.
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- [45] di Benedetto, M.; Bigarelli, L.; Lidozzi, A.; Solero, L. "Efficiency Comparison of 2-Level SiC Inverter and Soft Switching-Snubber SiC Inverter for Electric Motor Drives". **Energies** 2021, 14, 1690.
- [46] H. K. Mudaliar, D. M. Kumar, M. Cirrincione, M. di Benedetto and A. Fagiolini, "Improving the speed estimation by load torque estimation in induction motor drives: an MRAS and NUIO approach," 2021 IEEE 12th Energy Conversion Congress & Exposition - Asia (ECCE-Asia), 2021, pp. 2421-2426.
- [47] D. M. Kumar, M. Cirrincione, H. K. Mudaliar, M. di Benedetto, A. Lidozzi and A. Fagiolini, "Development of a Fractional PI controller in an FPGA environment for a Robust High-Performance PMSM Electrical Drive," 2021 IEEE 12th Energy Conversion Congress & Exposition - Asia (ECCE-Asia), 2021, pp. 2427-2431.
- [48] L. Bigarelli, M. di Benedetto, A. Lidozzi, L. Solero and P. Grbovic, "FPGA-Based Permanent Magnet Synchronous Machine Emulator with SiC Power Amplifier," in **IEEE Transactions on Industry Applications**.
- [49] M. Di Benedetto, A. Lidozzi, L. Solero, F. Crescimbinì and P. J. Grbović, "Low Voltage Stress 3-Phase 5-Level Multiceli E-Type Converter for Photovoltaic Applications," 2021 23rd European Conference on Power Electronics and Applications (EPE'21 ECCE Europe), 2021, pp. P.1-P.7.
- [50] M. d. Benedetto, A. Faro, L. Bigarelli, A. Lidozzi and L. Solero, "Variable Frequency Repetitive-Resonant Combined Control for Grid-Tied and Intentional Islanding Operations," 2021 IEEE Energy Conversion Congress and Exposition (ECCE), 2021, pp. 3366-3371.
- [51] M. di Benedetto, A. Lidozzi, L. Solero, F. Crescimbinì and P. J. Grbović, "Self-Balancing 3-phase 5-Level Flying E-Type Inverter for Photovoltaic Applications," 2021 IEEE Energy Conversion Congress and Exposition (ECCE), 2021, pp. 2588-2594.
- [52] M. Tang, P. Zanchetta, M. d. Benedetto, A. Lidozzi and L. Solero, "Fault Detection and Management of the Three-Phase 4-Leg Voltage Source Inverter," 2021 IEEE Energy Conversion Congress and Exposition (ECCE), 2021, pp. 3615-3622.
- [53] G. Di Nezio, M. di Benedetto, A. Lidozzi and L. Solero, "Design of a SiC Mosfet 6-Phase Boost Rectifier," 2021 21st International Symposium on Power Electronics (Ee), 2021, pp. 1-6.
- [54] Menicanti, S.; di Benedetto, M.; Marinelli, D.; Crescimbinì, F. Recovery of Trains' Braking Energy in a Railway Micro-Grid Devoted to Train plus Electric Vehicle Integrated Mobility. **Energies** 2022, 15, 1261.
- [55] Di Nezio, G.; di Benedetto, M.; Lidozzi, A.; Solero, L. Analysis and Design of a High-Efficiency SiC MOSFET 6-Phase Boost Rectifier. **Energies** 2022, 15, 2175.

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Roma 09/05/2022

Signature

Handwritten signature of Marco di Benedetto in black ink.