
CURRICULUM VITAE

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Publication impact (Scopus)
Journal papers 51
Citations 2843
H-index 26



BIOGRAPHY

Luca Solero (IEEE Senior Member) received the M.Eng. degree in Electrical Engineering from the University of Rome “La Sapienza,” Italy, in 1994.

From 1996 to 2016 I was with the ROMA TRE University with the positions of Assistant Professor and Associate Professor in the scientific and teaching field of “Converters, Machines and Electrical Drives”. Since 2016 I am engaged at the ROMA TRE University with the position of Full Professor for teaching regular courses named “Electrical Industrial Applications”, “Design of Power Electronic Converters”, “Marine Electric Drives”.

My current research interests include analysis and development of unconventional power converter topologies and electric drives for a number of applications including automotive power systems, hybrid and electric propulsion, renewable energy generating systems. Concerning these topics, I authored more than 190 papers published in international journals and conference proceedings worldwide.

Recipient of the 2019 IEEE IAS IPCC First Prize Paper Award and of the 2021 IEEE IAS IPCC Third Prize Paper Award.

Since 2022, I serve as Vice-Chair the IEEE IAS Industrial Power Conversion Systems Department IPCSD. I serve as Associate Editor of the IEEE Transaction on Industry Applications, of the IEEE Open Journal of Industry Applications, of the IEEE Journal of Emerging and Selected Topics in Industrial Electronics. I am member of the IEEE Industrial Electronics, IEEE Industry Applications, and IEEE Power Electronics Societies and the Past-Chair of the IEEE IAS Industrial Power Converters Committee.

PROFESSIONAL EXPERIENCE

Director – Center for Power Electronics and Drives (C-PED), ROMA TRE University, 09/2016-

Full Professor – Department of Engineering, ROMA TRE University, 01/2016-

Associate Professor – Department of Mechanical and Industrial Eng. ROMA TRE University, 11/2006-12/2015

Visiting Researcher – Center for Power Electronics Systems (CPES), Virginia Tech, Blacksburg VA (USA), 07/2001-08/2001 and 01/2002-10/2002

Assistant Professor – Department of Mechanical and Industrial Eng. ROMA TRE University, 11/1996-10/2006

ORGANIZATION EXPERIENCE

Editorial Boards

Associate Editor – IEEE Journal of Emerging and Selected Topics in Industrial Electronics, 11/2019-

Associate Editor and Deputy Director – IEEE Open Journal of Industry Applications, 10/2019-

Associate Editor – IEEE Transactions on Industry Applications, 10/2014-

Guest Editor – Special Issue on High Performance Power Electronic Converters: Topologies, Control, and Devices, IEEE Transactions on Industry Applications, 04/2018-12/2019

Technical Committee

Vice-Chair – IEEE IAS Industrial Power Conversion Systems Department, 01/2022 -

Chair – IEEE IAS Industrial Power Converters Committee, 01/2020-12/2021

Vice Chair – IEEE IAS Industrial Power Converters Committee, 01/2018-12/2019

Secretary - IEEE IAS Industrial Power Converters Committee, 01/2016-12/2017

European Liaison Officer - IEEE IAS Industrial Power Converters Committee, 01/2014-12/2015

Conferences

Vice-Chair, Technical Program Committee member – IEEE ECCE years 2014, 2016, 2018, 2019, 2020, 2021

Technical Program Committee member – IEEE IECON 2016, IEEE SLED 2016, IEEE ENERGYCON 2012

Scientific Committee member – IEEE SPEEDAM, since year 2018

Local Committee member – International Conference of Electrical Machines ICEM 2010, European Symposium on Supercapacitors and Applications ESSCAP 2008, IEEE Industry Applications Society Annual Meeting IAS 2000

National Committees

National Scientific Qualification Committee member – Electrical Energy Engineering area, 2019-2021

Delegate of the Head of the Engineering Department for the Copl Committee – Copl Committee is formed by all the Directors of the engineering departments of Italian universities, 2019-

Board of Directors member – CMAEL Power Electronics, Electrical Machines and Electrical Drives association, 2017-2020

Roma Tre University Committees

Resources Planning Committee member – Engineering Department, 2019-

Delegate of the Head of the Engineering Department for the GLOA Committee - GLOA Committee is in charge for strategic decisions concerning undergraduate and postgraduate students advising, 2010-

Students' Admission Committee member – Committee in charge for students' admission to engineering studies, 2003-2008

RESEARCH PROJECTS

I have the scientific responsibility for agreements concerning students' final thesis activities and training periods at companies in the Rome area, mainly in the field of power electronics. I have, furthermore, the scientific responsibility for the Framework Agreement between SEMIKRON and the Engineering Department of the ROMA TRE University.

In 2001 and 2002, I was Visiting Research Scholar at CPES (Center for Power Electronics Systems) – Virginia Tech, Blacksburg VA (USA). During my visit, I worked together with CPES researchers at the project "Power Electronics Building Blocks – Plug and Play – Hardware and Software Control Architectures" which was led by Prof. Dr. Dushan Boroyevich. I was in charge of design and sizing of Power Electronics Building Blocks (PEBBs) active and passive devices, both in case of hard switching and soft switching. I led the realization of the 33kW phase-leg prototype and the first experimental activity.

During my career I have been involved in the development of a significant number of research projects being funded by either public boards or private companies, mainly in the field of renewable energy and electric and hybrid propulsion.

I have been the Principal Investigator of the following research projects:

ENEA (2005) "Design and Realization of a Combined Storage System for Automotive Applications"; Larcet (2008) "Design and Prototypal Development of a 3-Phase Multilevel PFC with 48V Output Voltage"; 3C-Group (2008) "Design Specifications for the Electric Drive devoted to a 50cc Scooter Propulsion"; MiUR Prin 2008 "Turboexpander Coupled Electric Drives for Energy Recovering in Automotive Applications"; Semikron (2009) "Investigation of Multilevel Topologies and Design of 3-Level Power Electronic Converters Test Bench"; Geant Empowering (2010) "Control Design and Implementation for a 3 kW 1-Phase NPC Inverter for PV Applications"; Lazio District - Tecno.Tib.e.r.i.s. Consortium (2011) "Modular Power Supply Unit with Digital Control"; Larcet (2011) "Design and Testing of 3-Phase Inverters for Hybrid Farm Equipment"; Semikron (2015)

“Characterization of power modules: 3L Rectifier Module and Hybrid DC/DC Converter Module”; ABB PPHV Adda (2016) “Research Activity on the Motor Drive 1.4 Capacitor Charger (BCHR)”; ECPE Engineering Center for Power Electronics GmbH (2016-2017) “Passive and Active Reduction of Switching Overvoltage in SiC Equipped Industrial Drives”; Infineon Technologies Austria AG (2016-2019) “SiC Devices equipped Inverter Topologies for Electric Motor Drives”; Lazio Innova – Regional Funding for Research Projects (2018-2020) “Eco-Smart battery Charger for electric vehicles”; National Research Council (CNR) (2019-2021) “Investigation and Control of Power Electronic Converters for Floating Offshore Wind Turbine”; Lazio Innova - Regional Funding for Research Projects (2021-2023) “Power Active Nodes for the Internet of Energy”.

I was member of the Team RhOME for denCity, winner of the international contest Solar Decathlon Europe 2014.

SELECTED PUBLICATIONS

- [1] M. di Benedetto, A. Faro, L. Bigarelli, A. Lidozzi, L. Solero, *Constant Delay-Line Frequency Adaptive Repetitive-Resonant Control for Grid-Tied and Intentional Islanding Operations*, **IEEE Transactions on Industry Applications**, Vol. 59, No. 2, March-April 2023, pp. 1944-1955 (doi: 10.1109/TIA.2022.3227537) ISSN 0093-9994.
- [2] L. Pustina, J. Serafini, C. Pasquali, L. Solero, A. Lidozzi, M. Gennaretti, *A novel resonant controller for sea-induced rotor blade vibratory loads reduction on floating offshore wind turbines*, **Renewable and Sustainable Energy Reviews**, Vol. 173, March 2023, (doi: 10.1016/j.rser.2022.113073) ISSN 13640321.
- [3] A. Lidozzi, M. di Benedetto, T.A. Meynard, L. Solero, *Medium-Voltage Seven-Level Multiplexed Converter for AC Applications*, **IEEE Open Journal of Power Electronics**, vol. 4, pp. 81-90, 2023 (doi: 10.1109/OJPEL.2023.3237877)
- [4] A. Faro, M. di Benedetto, A. Lidozzi and L. Solero, *Constant Delay-Line Repetitive Control Analysis for Variable Frequency Operation*, **IEEE Open Journal of Power Electronics**, vol. 3, pp. 481-491, 2022 (doi: 10.1109/OJPEL.2022.3190313)
- [5] G. Di Nezio, M. di Benedetto, A. Lidozzi, L. Solero, *Analysis and Design of a High-Efficiency SiC MOSFET 6-Phase Boost Rectifier*, **Energies**, Vol. 15, No. 6, 2022, (doi: 10.3390/en15062175) ISSN 1996-1073.
- [6] M. di Benedetto, M. Tang, A. Lidozzi, L. Solero, A. Formentini, P. Zanchetta, *Resonant and a new disturbance-observer combined control for off-grid voltage source inverter*, **International Journal of Power Electronics and Drive Systems**, Vol. 13, No. 1, March 2022, pp. 223-236 (doi: 10.11591/ijpeds.v13.i1.pp223-236) ISSN 20888694
- [7] L. Bigarelli, M. di Benedetto, A. Lidozzi, L. Solero, P. J. Grbovic, *FPGA-Based Permanent Magnet Synchronous Machine Emulator with SiC Power Amplifier*, **IEEE Transactions on Industry Applications**, Vol. 57, No. 6, Nov.-Dec. 2021, pp. 6117-6130 (doi: 10.1109/TIA.2021.3104272) ISSN 0093-9994.
- [8] M. di Benedetto, L. Bigarelli, A. Lidozzi, L. Solero, *Efficiency Comparison of 2-Level SiC Inverter and Soft Switching-Snubber SiC Inverter for Electric Motor Drives*, **Energies**, Vol. 14, No. 6, 2021, (doi: 10.3390/en14061690) ISSN 1996-1073.
- [9] M. di Benedetto, A. Lidozzi, L. Solero, F. Crescimbinì, P.J. Grbović, *High-Performance 3-Phase 5-Level E-Type Multilevel-Multicell Converters for Microgrids*, **Energies**, Vol. 14, No. 4, 2021, (doi: 10.3390/en14040843) ISSN 1996-1073.
- [10] M. di Benedetto, F. Ortenzi, A. Lidozzi, L. Solero, *Design and implementation of reduced grid impact charging station for public transportation applications*, **World Electric Vehicle Journal**, Vol. 12, No. 1, pp. 1-19, 2021 (doi: 10.3390/wevj12010028) ISSN 2032-6653.
- [11] M. di Benedetto, A. Lidozzi, L. Solero, F. Crescimbinì, P. Grbovic, *Reliability and Real-Time Failure Protection of the 3-Phase 5-Level E-Type Converter*, **IEEE Transactions on Industry Applications**, Vol. 56, No. 6, Nov.-Dec. 2020, pp. 6630-6641 (doi: 10.1109/TIA.2020.3019358) ISSN 0093-9994.
- [12] L. Bigarelli, M. di Benedetto, A. Lidozzi, L. Solero, S.A. Odhano, P. Zanchetta, *PWM-Based Optimal Model Predictive Control for Variable Speed Generating Units*, **IEEE Transactions on Industry Applications**, Vol. 56, No. 1, Jan.-Feb. 2020, pp. 541-550 (doi: 10.1109/TIA.2019.2955662) ISSN 0093-9994.
- [13] F. Pulsinelli, M. di Benedetto, A. Lidozzi, Luca Solero, Fabio Crescimbinì, *Power Losses Distribution in SiC Inverter Based Electric Motor Drives*, **IEEE Transactions on Industry Applications**, Vol. 55, No. 6, Nov.-Dec. 2019, pp. 7843-7853 (doi: 10.1109/TIA.2019.2941864) ISSN 0093-9994.
- [14] S. Foti, A. Testa, G. Scelba, V. Sabatini, A. Lidozzi, L. Solero, *A Low THD Three-Level Rectifier for Gen-Set Applications*, **IEEE Transactions on Industry Applications**, Vol. 55, No. 6, Nov.-Dec. 2019, pp. 6150-6160 (doi: 10.1109/TIA.2019.2937054) ISSN 0093-9994.
- [15] M. di Benedetto, A. Lidozzi, L. Solero, F. Crescimbinì, P.J. Grbovic, *Low Volume and Low Weight 3-Phase 5-Level Back to Back E-Type Converter*, **IEEE Transactions on Industry Applications**, Vol. 55, No. 6, Nov.-Dec. 2019, pp. 7377-7388 (doi: 10.1109/TIA.2019.2928508) ISSN 0093-9994.
- [16] J. Serafini, M. Cremaschini, G. Bernardini, L. Solero, C. Ficuciello, M. Gennaretti, *Conceptual all-electric retrofit of helicopters: review, technological outlook and a sample design*, **IEEE Transactions on Transportation Electrification**, Vol. 5, No. 3, Sept. 2019, pp. 782-794 (doi: 10.1109/TTE.2019.2919893) ISSN 2332-7782.
- [17] 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*, **IEEE Transactions on Industry Applications**, Vol. 55, No. 4, July.-Aug. 2019, pp. 3946-3954 (doi: 10.1109/TIA.2019.2908337) ISSN 0093-9994.
- [18] M. di Benedetto, A. Lidozzi, L. Solero, F. Crescimbinì, P. J. Grbovic, *Five-Level EType Inverter for Grid-Connected Applications*, **IEEE Transactions on Industry Applications**, Vol. 54, No. 5, Sept.-Oct. 2018, pp. 5536-5548 (doi: 10.1109/TIA.2018.2859040) ISSN 0093-9994.
- [19] F. Crescimbinì, L. Solero, *Joint IEEE IAS/PELS Central and South Italy Chapter Cosponsor Power Electronics and Applications Summer Course [Society News, IEEE Power Electronics Magazine*, Vol. 5, No. 1, March 2018, pp. 74-75 (doi: 10.1109/MPPEL.2017.2784219).
- [20] A. Lidozzi, L. Solero, F. Crescimbinì, C. Ji, P. Zanchetta, *Digital Dead-Beat and Repetitive Combined Control for Stand-Alone Four-Leg VSI*, **IEEE Transactions on Industry Applications**, Vol. 53, No. 6, Nov.-Dec. 2017, pp. 5624-5633 (doi: 10.1109/TIA.2017.2734049) ISSN 0093-9994.
- [21] M. Di Benedetto, A. Lidozzi, L. Solero, F. Crescimbinì, P.J. Grbovic, *Small Signal Model of the Five-Level Unidirectional T-Rectifier*, **IEEE Transactions on Power Electronics**, Vol. 32, No. 7, July 2017, pp. 5741-5751 (doi: 10.1109/TPEL.2016.2607839) ISSN 0885-8993.
- [22] M. Di Benedetto, A. Lidozzi, L. Solero, F. Crescimbinì, P.J. Grbovic, *Low Frequency State-Space Model for the Five-Level Unidirectional T-Rectifier*, **IEEE Transactions on Industry Applications**, Vol. 53, No. 2, March-April 2017, (doi: 10.1109/TIA.2016.2621107) ISSN 0093-9994.
- [23] A. Lidozzi, L. Solero, F. Crescimbinì, Chao Ji, P. Zanchetta, *Load Adaptive Zero-Phase-Shift Direct Repetitive Control for Stand-Alone Four-Leg VSI*, **IEEE Transactions on Industry Applications**, Vol. 52, No. 6, Nov.-Dec. 2016, pp. 4899-4908. (doi: 10.1109/TIA.2016.2595493) ISSN 0093-9994.

- [24] S. Bifaretti, A. Lidozzi, L. Solero, F. Crescimbin, *Modulation with Sinusoidal Third Harmonic Injection for Active Split DC-Bus Four-Leg Inverters*, **IEEE Transactions on Power Electronics**, Vol. 31, No. 9, Sept. 2016, pp. 6226-6236 (doi: 10.1109/TPEL.2015.2502320) ISSN 0885-8993.
- [25] E. Rovelli, S. Scarpaci, A. Lidozzi, L. Solero, *An HVCB Electronic Drive for Modern Electrical Substation in Distribution Power Systems*, **IEEE Transactions on Power Delivery**, Vol. 31, No. 2, April. 2016, pp. 665-673 (doi: 10.1109/TPWRD.2015.2475217) ISSN 0885-8977.
- [26] P.J. Grbović, A. Lidozzi, L. Solero, F. Crescimbin, *Five-Level Unidirectional T-Rectifier for High Speed Gen-Set Applications*, **IEEE Transactions on Industry Applications**, Vol. 52, No. 2, Feb.-Mar. 2016, pp. 1642-1651. (doi: 10.1109/TIA.2015.2504469) ISSN 0093-9994.
- [27] A. Lidozzi, G. Lo Calzo, L. Solero, F. Crescimbin, *Single-Phase Inverter for Grid-Connected and Intentional Islanding Operations in Electric Utility Systems*, **Journal of Power Electronics**, Vol. 16, No. 2, Mar. 2016, pp. 704-716. (doi: 10.6113/JPE.2016.16.2.704) ISSN 1598-2092.
- [28] A. Lidozzi, M. Di Benedetto, S. Bifaretti, L. Solero, F. Crescimbin, *Resonant Controllers with Three-Degree of Freedom for AC Power Electronic Converters*, **IEEE Transactions on Industry Applications**, Vol. 51, No. 6, Nov.-Dec. 2015, pp. 4595-4604. (doi: 10.1109/TIA.2015.2448057) ISSN 0093-9994.
- [29] A. Lidozzi, Chao Ji, L. Solero, P. Zanchetta, F. Crescimbin, *Resonant-Repetitive Combined Control for Stand-Alone Power Supply Units*, **IEEE Transactions on Industry Applications**, Vol. 51, No. 6, Nov.-Dec. 2015, pp. 4653-4663. (doi: 10.1109/TIA.2015.2458960) ISSN 0093-9994.
- [30] A. Lidozzi, L. Solero, S. Bifaretti, F. Crescimbin, *Sinusoidal Voltage Shaping of Inverter Equipped Stand-Alone Generating Units*, **IEEE Transactions on Industrial Electronics**, Vol. 62, No. 6, June 2015, pp. 3557-3568. (doi: 10.1109/TIE.2014.2370939) ISSN 0278-0046.
- [31] G. Lo Calzo, A. Lidozzi, L. Solero, F. Crescimbin, *LC Filter Design for On-Grid and Off-Grid Distributed Generating Units*, **IEEE Transactions on Industry Applications**, Vol. 51, No. 2, Mar.-Apr. 2015, pp. 1639-1650. (doi: 10.1109/TIA.2014.2345952) ISSN 0093-9994.
- [32] S. Bifaretti, A. Lidozzi, L. Solero, F. Crescimbin, *Anti-Islanding Detector based on a Robust PLL*, **IEEE Transactions on Industry Applications**, Vol. 51, No. 1, Jan.- Feb. 2015, pp. 398-405. (doi: 10.1109/TIA.2014.2330063) ISSN 0093-9994
- [33] F. Crescimbin, A. Lidozzi, G. Lo Calzo, L. Solero, *High-Speed Electric Drive for Exhaust Gas Energy Recovery Applications*, **IEEE Transactions on Industrial Electronics**, Vol. 61, No. 6, June 2014, pp. 2998-3011. (doi: 10.1109/TIE.2013.2271602) ISSN 0278-0046.
- [34] A. Lidozzi, G. Lo Calzo, L. Solero, F. Crescimbin, *Integral-Resonant Control for Stand-Alone Voltage Source Inverters*, **Institution of Engineering and Technology, IET Power Electronics Journal**, Vol. 7, No. 2, Feb. 2014, pp. 271-278. (doi: 10.1049/iet-pel.2013.0121) ISSN 1755-4535.
- [35] A. Lidozzi, A. Romanelli, L. Solero, *High Power Density 3-Level 3-Phase AC-DC 48V Power Supply*, **Journal of Energy and Power Engineering**, David Publishing Comp. (USA), Vol. 6, No. 10, Oct. 2012, pp. 1623-1633. ISSN 1934-8975
- [36] G. Lo Calzo, A. Lidozzi, L. Solero, F. Crescimbin, *Three-Phase Z-Source Power Supply Design*, **Institution of Engineering and Technology, IET Power Electronics Journal**, Vol. 5, No. 8, Sept. 2012, pp. 1270-1281. (doi: 10.1049/iet-pel.2012.0130) ISSN 1755-4535.
- [37] F. Crescimbin, A. Lidozzi, L. Solero, *High Speed Generator and Multilevel Converter for Energy Recovery in Automotive Systems*, **IEEE Transactions on Industrial Electronics**, Vol. 59, No. 6, June 2012, pp. 2678-2688. (doi: 10.1109/TIE.2011.2160513) ISSN 0278-0046.
- [38] A. Lidozzi, L. Solero, F. Crescimbin, *Adaptive Direct-Tuning Control for Variable-Speed Diesel-Electric Generating Units*, **IEEE Transactions on Industrial Electronics**, Vol. 59, No. 5, May 2012, pp. 2126-2134. (doi: 10.1109/TIE.2011.2151826) ISSN 0278-0046.
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- [40] L. Solero, A. Lidozzi, V. Serrao, L. Martellucci, E. Rossi, *Ultracapacitors for Fuel Saving in Small Size Hybrid Vehicles*, **Elsevier Journal of Power Sources**, Vol. 196, No. 1, Jan. 2011, pp. 587-595. ISSN 0378-7753.
- [41] A. Lidozzi, L. Solero, A. Di Napoli, *Ultracapacitors Equipped Hybrid Electric MicroCar*, **Institution of Engineering and Technology, IET Electric Power Applications Journal**, Vol. 4, No. 8, Sept. 2010, pp. 618-628. (doi: 10.1049/iet-epa.2009.0096) ISSN 1751-8660.
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