

CURRICULUM VITAE

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Luca Zarri

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Bio

Luca Zarri collaborated with national and international software houses from 1990 to 1992 for the realization of software applications for micro and personal computers. He graduated in Electrical Engineering in 1998 and received the PhD degree in 2007. From 1999 to 2002, he worked with an Italian engineering company with assignments of design and management of mechanical and electrical plants for large public tenders (with amounts between 1 and 5 million Euros). He held the position of laboratory engineer at the Department of Electrical Engineering of the University of Bologna from 2003 to 2005. Later, he became an assistant professor, and he has been an associate professor since 2014.

Projects and contracts

Dr Zarri played an active role as investigator or co-investigator in national research projects and contracts with private companies (Magneti Marelli, Ferrari, Riello UPS, Bonfiglioli, Ocem), mainly dealing with issues of power electronics and drive control.

He has participated in various research programs and multi-year projects, including the Research Programs with Relevant National Interest (PRIN) 2005 and 2007, the Research Project of the Ministry of Economic Development "MECCANO" (Industry 2015), the Electrical System Research projects (RdS) 2013-2014 and 2015-2017.

Research activity

Luca Zarri is the author of over 150 scientific papers. Most of the papers were presented in well-known international conferences (EPE, EPE-PEMC, IAS, ECCE, CFSP, ISIE, IECON, ICEM, SDEMPED, SPEEDAM, IEMDC, WEMDCD) or published in international scientific journals (IEEE Trans. on Industrial Electronics, IEEE Trans. on Power Electronics and IEEE Trans. on Industry Applications).

The research activity concerns variable-speed electric drives and multi-phase drives, three-phase direct matrix AC / AC converters, multi-level and multi-phase converters, the design of traditional and special electrical machines, diagnostic systems for machines electrical and the design of high-efficiency soft-switching or resonant converters, and wide-band-gap devices.

Other activities

L. Zarri has been an IEEE Senior Member since 2012. Since 2018, he has been Vice Chair for Programs of the Industrial Drives Committee - IEEE Industry Applications Society, and he will cover the position of Vice Chair for Papers in the biennium 2020-2021. He has repeatedly held the roles of Session Chair and Topic Chair in international conferences (ECCE, ICEM, IECON, IEMDC). He was a Vice Chair for ECCE 2014 (Pittsburgh, Pennsylvania), ECCE 2018 (Portland, OR) and ECCE 2019 (Baltimore, MD). He was Technical Program Chair for ICEM 2016, SDEMPED 2017, ICEM 2018 and IEMDC 2019. He is also a permanent Associate Editor of IEEE Trans. on Industry Applications (Electric Machines Committee) and IEEE Journal of Emerging and Selected Topics in Power Electronics.