

Stefano Saggini

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Education

- In the academic year 2003/2004 at the Politecnico di Milano he obtained the title of PhD in Information Engineering, discussing the thesis: "A novel digital controller for multiphase buck converters" (Supervisor Prof. Massimo Ghioni) carried out in collaboration with STMicroelectronics.
- In the academic year 1999/2000 at the Politecnico di Milano he graduated in Electronic Engineering, specialization in Signals and Systems, with a grade of 100/100 cum laude, discussing the thesis: "Analysis of immunity to self-induced disturbances in integrated DC / DC "(Supervisor Prof. Massimo Ghioni) carried out in collaboration with STMicroelectronics.

Appointments

- Associate Professor, Polytechnic Department of Engineering and Architecture, University of Udine, 2016–Present
- Research Assistant, Polytechnic Department of Engineering and Architecture, The University of Udine, 2006-2016
- Teaching Assistant, Polytechnic Department of Engineering and Architecture, The University of Udine, 2006-2016
- Teaching Assistant, Department of Information Engineering, Polytechnic of Milan, 2001-2005
- ICs Senior Designer in the Industrial & Power Conversion Division of STMicroelectronics and collaborates with the Polytechnic of Milan and the University of Udine on research topics aimed at the development of digital control systems for DC / DC SMPS converters, 2001-2005

Research Experience

- Research activity on DC-DC converter topologies, main collaborations: Google, STMicroelectronics, Infineon
- Research activity Wireless power transfer; main collaborations: Google, European research programs (ENERGY ECS)
- Integration of digital and mixed-signal controller for SMPS, Main collaborations: STMicroelectronics, European research programs(R3-POWER UP and CONVERGENCE)
- Integration of controller for SMPS in Silicon Carbide technology; Main collaborations: KTH (royal institute of technology)
- Radiation tolerant Power Converter and Integrated Circuit; Main collaborations: CERN (the European Organization for Nuclear Research)
- Since 2005 Dr. Stefano Saggini is a reviewer for two of the main journals (IEEE Transactions on Power Electronics and IEEE Transaction on Industrial Electronics) and conferences in the Power Electronics sector (IEEE Applied Power Electronics Conference and IEEE Power Electronics Specialist Conference).
- In 2013 Stefano Saggini was appointed member of the organizing committee of the 2013 IEEE Energy Conversion Congress and Exposition (ECCE 2013) which was held in Denver, Colorado (USA), from 15-19 September 2013, with 1200 participants.

- In 2022 Stefano Saggini is a guest associate editor of the special Issue on Switched Capacitor Converters (SCCs) in IEEE Transaction on Power Electronics.

Since 2005 Publications

About 109 documents in conferences and journals (31 IEEE Journals papers and 67 IEEE Conferences papers) and 12 international patents.

Teaching Experience

- From 2006- present Teaching in industrial electronics, power electronics and analog electronics at the University of Udine.
- Teaching Assistant, Department of Information Engineering, Polytechnic of Milan, 2001-2005
- ECOLE DOCTORALE EEATS Grenoble INP - Minatec a.a 2008-09, 2012-13 e 2014-2015
- CERN (MicroElectronics Users Exchange (MUX 2010)) 10/2010

Awards

- 2020 "First Prize Paper Award Transactions on Power Electronics"
- 2020 " Prize Letter Award for IEEE Transactions on Power Electronics"
- 2005 "Prize Paper Award Transactions on Power Electronics"