

DE MATTEIS Marcello

Born 31/12/1975

EDUCATION

2007 **PhD** in Information Engineering, University of Salento. Italy
2004 **Master Degree** in Electronic Engineering, Milan Polytechnic, Italy
2003 **Master Degree** in Industrial Engineering, Madrid Polytechnic, Spain

CURRENT POSITION

2014 – now **Assistant Professor** (University of Milano-Bicocca, Italy)

PREVIOUS POSITIONS

2012 – 2014 **Post-Doc Researcher** in Microelectronics at the University of Milano-Bicocca, Italy)
2010 – 2012 **Post-Doc Researcher** in “**Green Engine**” Research Network Project for Sensors and MEMS laboratory (University of Salento, Italy)
2008 – 2010 **Post-Doc Researcher** in Microelectronics at the University of Salento, Italy

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Scopus: 12 (doc. 101, cit. 460)

Google Scholar: 12 (cit. 551)

FELLOWSHIPS AND AWARDS

2005-2014 3 **GOLD Award**, 2 **SILVER Awards**, and 1 **BRONZE Award** at IEEE PRIME Conference
2005 **Fellowship** at Infineon Technologies, Villach (Austria), on Class D Amplifiers for xDSL Transceivers, in CMOS 0.13µm technology

SUPERVISION OF GRADUATE STUDENTS AND POSTDOCTORAL FELLOWS

2017 He is now **Tutor** of 1 PhD student in Physics
2017 He is now **Tutor** of 3 Master Thesis Students and 4 Bachelor Student in Analog Design
2005–2016 **Tutor** of 15 Master Thesis Students, and 12 Bachelor Thesis Students in Microelectronics

TEACHING ACTIVITIES

2011 – Now **Professor** in *Digital Design*. University of Milano-Bicocca, Italy
2011 – 2013 **Professor** in *Microelectronics Laboratory*, University of Milano-Bicocca, Italy
2008– 2010 **Professor** in *Analog Microelectronics, Microelectronics Design* and *Telecommunications Electronics II*, University of Salento, Italy

SCIENTIFIC PUBLICATIONS

26 International Journal Papers
75 Conference paper (with referee)
6 Books Chapters

ORGANIZATION OF SCIENTIFIC MEETINGS

2016 **Track Chair** in Mixed Signal Circuits and Data for IEEE NEWCAS 2016 Conference (June, 26th – June, 29th, 2016, Vancouver, Canada)
2015 **Track Chair** in Mixed Signal Circuits and Data for IEEE NEWCAS 2015 Conference (June, 7th – July, 10th, 2015, Grenoble, France)
2014 **Track Chair** in ADC/DAC/Mixed for IEEE PRIME 2014 Conference (June, 30th – July, 3rd, 2014, Grenoble, France)
2013 **Secretary** of the 9th IEEE PRIME 2013 Conference (June, 24th – June, 27th, 2013, Villach, Austria)
2011-Now He is member of the **Technical Program Committee** of the IEEE ESSCIRC, IEEE NEWCAS, IEEE PRIME and IEEE ICICDT conferences
2013-2014 **Chairman** at the ADC/DAC/Mixed Session at the IEEE PRIME Conference (2013 and 2014) and at the Analog & Mixed-Signal Session of the NEWCAS 2015 conference

2015 **Organizer of the Special Session** at the IEEE International Conference on Electronics, Circuits, and Systems (ICECS), held in Cairo (Egypt) December 6/9 2015, entitled "Deeply Scaled-Down CMOS Integrated Circuits for Physics Experiments"

ON-GOING GRANTS AND PROJECTS (as Principal Investigator)

2017-Now **ProSD (Proton Sound Detector)** Project (136 kEuro) funded by the National Institute for Nuclear Physics (INFN), involving 5 research units (INFN Section of Milano-Bicocca, Polytechnic of Valencia, National Centre of Oncological Hadrontherapy (CNAO, Pavia), Ludwig Maximilians Universität München (LMU, Germany), INFN Section of Catania).

2016-Now **In-Vivo Brain-to-Bit System for Neuroelectronics** (25 kEuro) within Fondo Quota Competitiva di Ateneo (UniMib) 2016

2014-Now **ATLAS Muon-Drift-Tubes Amplifier-Shaper-discriminator Front-End in IBM CMOS 0.13 μ m technology** with the Max-Planck-Institut-für-Physik (Werner-Heisenberg-Institut – München, Germany)

MAJOR COLLABORATIONS (with publications)

2018 **Work Package Responsible** "FinFet18" project (founded by INFN)

2016 **Work Package Responsible** of the "ScalTech28" project (founded by INFN)

2005 – Now Collaboration with **UBlox** (Cork, Ireland), **Max-Planck-Institut-für-Physik** (Werner-Heisenberg-Institut – München, Germany), **CERN** (Geneva, Switzerland), **Large Scale Polarization Explorer** balloon experiment, **Pirelli Tyres** (Milano, Italy), **Tronchetti-Provera Foundations** (Milano, Italy), **ReadyTrace Inc.** (Chino, CA, USA), **Chipidea MIPS Microelectronics** (Lisbon, Portugal), **IMEC** (Leuven, Belgium)

INVITED TALKS AND AWARES

He has been **invited speaker** at:

2014 23rd Workshop on Advances in Analog Circuit Design (AACD2014 - Lisbon, Portugal, April 8th–10th, 2014)

2014 10th IEEE PRIME Conference (PRIME2014 - Grenoble, France, June 30th – 3rd July, 2014)

2014 8th IEEE Topics on Microelectronics (ToM2014, Pavia, Italy. September 3rd – September 5th, 2014).

2008 IEEE Design, Automation and Test in Europe Conference (DATE08 - Munich, Germany. March 10th-14th, 2008)

He presented contributions as coauthor in **invited papers** at the following international conferences:

2014 Topical Workshop on Electronics for Particle Physics (TWEPP2013 - Perugia, Italy, September 23th–27th, 2013)

2014 25th Workshop on Advances in Analog Circuit Design (AACD2016 - Villach, Austria, April 26th – 28th, 2016)

2006 International Symposium on Circuits and Systems (ISCAS) 21-24 May 2006, Kos, Greece

MEMBERSHIPS

2011-Now Associated Editor of the Journal of Circuits, Systems and Computers

2005-Now **Referee** for the following Journals: IEEE Journal of Solid-State Circuits, IEEE Transactions on Circuits and System, Journal of Circuits, Systems and Computers, Transactions on Design Automation of Electronic Systems, IEEE International Symposium on Personal Indoor and Mobile Radio Communications

COMMISSIONS OF TRUST

2017 **Member of the panel** on behalf of the Belgian SBO program (Strategic Basic Research, Research Foundation – Flanders (Fonds Wetenschappelijk Onderzoek - Vlaanderen, FWO))

2017 **Member of the selection panel** for the PhD in Physics and Astronomy (XXXIII ciclo) at the Department of Physics of the University of Milano Bicocca

2017 **Member of the evaluation panel** for the PhD in Information Engineering at the Department of Innovation, University of Salento (XXVI e XXVII ciclo)
Member of the evaluation panel for the PhD Programme in Design, Manufacturing and Management of Industrial Projects at the Polytechnic of Valencia

INSTITUTIONAL RESPONSABILITIES

2014-Now Faculty Member, University of Milan-Bicocca (Italy)
2010-Now Microelectronics Group Vice-Director University of Milan-Bicocca (Italy)