

Antonio Moschitta

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Research Interests

Antonio Moschitta research interests include the development and modeling of measurement systems, instrumentation, and their performance improvement through statistical signal processing. His research topics include

- Testing of Analog to Digital Converters, Digital to Analog Converters, and Time to Digital Converters;
- Indoor Positioning;
- Power quality monitoring.

His research is currently focused on two main topics. The first one is the development of low cost indoor positioning systems based on the transmission of either broadband UWB signals or narrowband ISM signals. The second topic is the development of competitive power quality monitoring systems based on efficient statistical estimation. He participates to the research group and laboratory activities on Electronic Instrumentation, at the University of Perugia and tutors Master's level students. He is author and co-author of about 40 papers published in international refereed journals (about 16) or in proceedings of international congresses.

Teaching

Antonio Moschitta teaches courses associated with the educational programs of the School of Engineering at the University of Perugia. Currently, these courses include:

- Electronic Measurements and Instrumentation
- Distributed Measurement Systems

He occasionally teaches enterprise level short courses on quality management and electronic measurements in small enterprises.

Education and Academic Career

- 2004** Researcher at University of Perugia, scientific sector ING-INF/07 (Electric and Electronic Measurements)
- 2002** On 21/01/2002, receives his Ph.D. Degree in Electronic Engineering, IV Cycle, at University of Perugia. Final Dissertation Title: *"Bandpass Sigma-Delta Conversion in Digital Communication Systems"*.
- 2001** Research Assistant position at the Department of Electronic and Information Engineering of University of Perugia
- 1999** Receives a Master degree in Computational Engineering, organized by "Materials Engineering Degree Course" of University of Perugia, focused on usage of numeric techniques for solving and optimizing structural, thermal and electromagnetic problems, on 2/12/1999 (100/100). The final stage, focused on non destructive magnetic tests for identification of defects in metallic materials, was carried out at the Department of Industrial Engineering at the University of Perugia.
- On 17/3/1999 he is admitted to a Ph.D. course in Electronic Engineering (XIV cycle) at the University of Perugia, Department of Electronic and Information Engineering.
- 1998** On 11/11/1998 he receives his Laurea Degree in Electronic Engineering, at the University of Perugia (110/110). The final dissertation, titled *"Performance Measurements for Digital Television Transmitters"*, was developed in cooperation with the ITELCO S.p.A. Orvieto.

Academic and professional activities

- Reviewer for the following journals: IEEE Transactions on Instrumentation and Measurements, IEEE Transactions on Circuits and Systems, International Journal on Computer Standards & Interfaces, IEEE Signal Processing Letters, Elsevier Measurement Journal.
- Member of the National Organizing Committee of the International Congress "8th International Workshop on ADC Modelling and Testing IWADC2003", Perugia, Italia, 8-10 Settembre 2003.
- Member of the Engineering Faculty Board at the University of Perugia since 2007.
- Member of the Self Evaluation Group of the "Engineering Management" Degree Course, University of Perugia, Faculty of Engineering, since 2007.