

## **Short CV of Daniela De Venuto (Feb.2013)**

### ***Academic Positions***

Dr. Daniela De Venuto holds the position of Associate Professor of Electronics at the Department of Elettrotecnica ed Elettronica (actually Department of Electrical and Computer Science Engineering) of Politecnico di Bari, Italy, where she started holding the postdoctoral position in 1993 and then being Assistant Professor first at the University of Salento in 1994 and then again in Bari in 1999.

### ***Education***

Prof. De Venuto graduated in Electronic Engineering at the Faculty of Engineering, University of Bari in 1989. In 1993 she received the PhD degree at the same University.

### ***Visiting Positions***

Since 1995 she holds the position of associated researcher at the National Institute of Nuclear Physics working in the frame of projects on silicon drift detector (DSI), pixel detectors telescope (ALICE Project at CERN Geneva Switzerland, still running), and SIRTOD.

In 2000 she spent a sabbatical year at the Ecole Polytechnique Federale de Lausanne (EPFL, Switzerland), at the Laboratoire d'Electronique Générale (LEG). During this time Prof. De Venuto was working within the European "Eureka" Project on design Hall sensor front-end and read-out ASIC in FD SOI technology (UCL, Belgium).

Between July 2002 and July 2005, she has been Visiting Scholar at the University of Seattle, Washington (USA).

Between August 2002 and 2006, she held the position of Visiting Lecturer at the University of Lancaster, Centre for Microsystems Engineering. As member of the Lancaster University, she worked in the European Project "Testability of Analogue Macro-cells Embedded in System-On-Chip (TAMES-2)". Furthermore she has also been involved in a second European project (still running) about the creation of an Excellence Network on Design and Test of Electronic Microsystems" including sensor and MEMS (PATENT).

During 2008-2009, she has been on sabbatical leave at NXP Semiconductors (IMEC Leuven, Belgium and at HighTechCampus in Eindhoven, The Netherlands) designing a novel low power 12 bit SAR ADC for RFID perishable product monitoring based upon an invitation NXP's head of the R&D department.

Since 2010 she has been visiting the IC Lab of NXP HTC Eindhoven working on the design of new concepts for smart temperature sensors for low power RFID application.

Actually (2012-2013) she is at the University of California at Berkeley for a sabbatical period

### ***International and National Scientific Collaborations***

In 1997 Prof. De Venuto started a scientific collaboration with the University of Hannover, Germany and in 1998 with Alcatel Microelectronics, Bruxelles, Belgium, in the field of Design & Test of Mixed-Signal Integrated Circuits.

During the period 2003-2007, she has been responsible for the Politecnico di Bari for National Projects (PRIN03-PRIN05) on DNA detection systems in collaboration with the Universities of Bologna, Roma “La Sapienza”, and Perugia.

Since 2007 she is collaborating with the Department of Microsystems at EPFL Lausanne on bio-systems design for healthcare.

Since 2012 she is responsible of the national Project CESAR (two years) in the frame of national RIDITT initiative in collaboration with Confindustria, Confagricoltura, Distretto Agroalimentare Regionale and Università di Bologna.

Since 2012 she is responsible as representative of the Politecnico di Bari of the PON project on Ambient Assisted Living, named INNOVAL driven by the CNR.

Since 2012 she is visiting Prof. Alberto Sangiovanni Vincentelli and Prof. Jan Rabaey at the University of California at Berkeley working on BMI.

### ***Research Interests***

Prof. De Venuto has focused her research activity on the following areas of interest:

- a) Design of silicon detectors, sensors, analog and mixed signal read-out circuits
- b) Bio-sensors interfaces and IC electronics for and Brain Machine Interface
- c) Testing of Analog and Mixed-Signal ICs and Design-for-Testability (DfT)

### ***Awards:***

IEEE ISQED 2010 fellow