

Roberto Sorrentino Biography 2010



Roberto Sorrentino received the *Laurea* degree in Electronic Engineering from *La Sapienza* University of Rome, Rome, Italy, in 1971, where he became an Assistant Professor of Microwaves in 1974. He was adjunct professor at the University of Catania, at the University of Ancona and at *La Sapienza* University of Rome (1977-1982), where he then was an Associate Professor from 1982 to 1986. In 1983 and 1986 he was appointed as a Research Fellow at the University of Texas at Austin, Austin, USA. From 1986 to 1990 he was a Professor at the University of Rome "Tor Vergata". Since November 1990 he is a Professor at University of Perugia, Perugia, Italy, where he was the Chairman of the Electronic Department, Director of the Computer Center (1990-1995), and Dean of the Faculty of Engineering (1995-2001).

His research activities have been concerned with various technical subjects, such as the electromagnetic wave propagation in anisotropic media, the interaction of electromagnetic fields with biological tissues, but mainly with numerical methods and CAD techniques for passive microwave structures and the analysis and design of microwave and millimeter-wave circuits. In recent years he has been involved in the modelling and design of Radio Frequency Microelectromechanical Systems (RF-MEMS) and their applications on tuneable and reconfigurable circuits and antennas.

He is the author or co-author of more than 150 technical papers in international journals and 200 refereed conference papers. He has edited a book for IEEE Press (R. Sorrentino, *Numerical Methods for Passive Microwave Structures*, 1989), co-authored four books: M. Guglielmi, G. Conciauro, R. Sorrentino, *Advanced Modal Analysis*, J. Wiley, 2000; R. Sorrentino and G. Bianchi, *RF and Microwave Engineering* (in Italian), McGrawHill, 2006; G. Bianchi and R. Sorrentino, *Electronic Filter Simulation and Design*, McGrawHill, 2007, R. Sorrentino and G. Bianchi, *RF and Microwave Engineering*, J. Wiley, 2010.

Roberto Sorrentino has been the co-ordinator of several Italian National Projects in the area of Microwave and Millimeter-wave circuits and systems and RF-MEMS technology, funded by the Italian Ministry of University and by the Italian Space Agency. He has also been involved in several project funded by the ESA, the European Space Agency, along with key industries such as Thales Alenia Space (formerly Alenia Spazio). As the leader of the Perugia research group, he was involved in the FP6 Network of Excellence AMICOM (Advanced MEMS For RF and Millimeter Wave **C**ommunications), of which he was the Scientific Coordinator from 2006 to 2007. His research group is presently involved in two FP7 project ARASCOM (MEMS & Liquid Crystal based Agile **R**eflectarray **A**ntennas for **S**ecurity & **C**OMmunication) and MEMSPACK (Zero- and First-level Packaging of RF-MEMS) and three projects funded by the European Space Agency.

In 2007 he founded RF Microtech, a spinoff of the University of Perugia dealing with RF MEMS, microwave systems and antennas.

In 1990 he has become a Fellow of the IEEE "for contribution to the modelling of planar and quasi-planar microwave and millimetre-wave circuits". In 1993 he was the recipient of the MTT-S Meritorious Service Award. In 2000 he was one of the recipients of the IEEE Third Millennium Medal. In 2004 he received the Distinguished Educator Award from IEEE MTT-S.

Roberto Sorrentino has been active within the IEEE MTT Society. From 1984 through 1987 he was the Chairman of the IEEE Section of Central and South Italy and was the founder of

the local MTT/AP Chapter that he chaired from 1984 to 1987. From Jan. 1995 through April 1998 he was the Editor-in-Chief of the IEEE Microwave and Guided Wave Letters. From 1998 to 2005 he has served on the Administrative Committee of the IEEE Microwave Theory and Techniques Society. He is also a member of Technical Committees MTT-15 on Field Theory and MTT-1 on Computer-Aided Design, which he chaired in 2003-04.

Roberto Sorrentino also served the International Union of Radio Science (URSI) as Vice Chair (1993-1996) then Chair (1996-1999) of the Commission D (Electronics and Photonics). Since 2007 he is the President of the Italian Delegation of URSI.

In 2002 he was among the founders and first President of the Italian Electromagnetic Society (SIEm) that he chaired until 2008. From 1998 to 2005 he was a member of the High Technical Council of the Italian Ministry of Communications.

In 1996 during the restructuring of the management of the European Microwave Conference, he was elected Chairman of the Management Committee and of the Steering Committee. In 1998 an entirely new structure, the European Microwave Week, was launched, soon underpinned by a new non-for-profit organisation called the European Microwave Association (EuMA), of which he was one of the founders and President from its constitution till 2009.