

Pioneer Award Winner 2018

Prof. Vittorio Rizzoli

EuMA | European
Microwave
Association



Vittorio Rizzoli received his degrees in Electronic Engineering from the University of Bologna, Italy, in 1971 and 1980. In 1972 he was appointed a Professional Engineer. In 1974 he joined the University of Bologna as an Assistant to the Chair of Electromagnetic Fields and Circuits. In November, 1980, he joined the University of Bologna as a Full Professor of Electromagnetic Fields.

His main research interests are in the areas of nonlinear microwave circuit simulation and design with emphasis on modern CAD techniques for large size problems, electromagnetic design of microwave and millimetre-wave integrated circuits, and nonlinear/electromagnetic co-simulation of wireless systems including environmental aspects. He is author or co-author of over 220 technical papers, most of which have been published in English in refereed international journals or presented to selected international meetings (again in English). In these areas he participated in a large number of national and international research programs funded by national and international Institutions, in many cases as the principal investigator. From 1987 to 2002 he coordinated an applied research program in cooperation between the Department of Electronics and Computer Science of the University of Bologna and Compact Software Inc. (New Jersey, USA), aimed at the development of the first general-purpose software suite for nonlinear microwave circuit simulation and design. The resulting set of design tools was systematically used for many years by Industrial R&D labs worldwide.

Prof. Rizzoli was a member of the Editorial Board of IEEE Microwave and Wireless Components Letters, IEEE Transactions on Microwave Theory and Techniques, and of John Wiley's International Journal of RF and Microwave Computer Aided Engineering. He is also a member of the Paper Review Board of Electronics Letters. In the years 2005/2007 he served as Associate Editor of the IEEE Transactions on Microwave Theory and Techniques, with autonomous decision capabilities.

From 1987 to 1995, in 2002, and in 2009, he was on the Technical Program Committee of the European Microwave Conference. In 1995 he served as Chairman of the 25th European Microwave Conference that was held in Bologna, Italy, in conjunction with the Celebrations for the First Centenary of the Invention of

the Radio. In 1995/96 he served as Chairman of the Management Committee of the European Microwave Conference. In 2001 he organised and chaired a Special Marconian Session devoted to the celebration of the first centenary of Marconi's 1901 transatlantic radio transmission, that was held in London, UK, in conjunction with the 31st European Microwave Conference.

In 1990 Prof. Rizzoli was appointed by the IEEE "Distinguished Microwave Lecturer" of IEEE MTT-Society for Region 8. In this capacity, in 1990/1993 he presented 15 lectures at top scientific Institutions in Europe, U.S.A., and Middle East (Israel) on "Simulation and Design of Nonlinear Microwave Circuits". In 1994 he was elected Fellow of the IEEE with the citation "For Contributions to the Simulation and Design of Nonlinear Microwave Integrated Circuits". From 1999 to 2007 he was a member of the Technical Program Committee of the IEEE MTT-S International Microwave Symposium.

Since 1993 he has been a member of IEEE MTT-1, the Technical Committee of Computer-Aided Design whose institutional task is the promotion, development, and dissemination of CAD techniques among the members of the Scientific Community. In this capacity, he also cooperated in the organization and presentation of several Workshops aimed at the illustration of key aspects of Microwave CAD techniques to non-specialist audiences.