

# Distinguished Educator Award

This award was inspired by the untimely death of Prof. F.J. Rosenbaum (1937–1992), an outstanding teacher of microwave science and a dedicated AdCom Member and contributor. The award recognizes a distinguished educator in the field of microwave engineering and science who best exemplifies the special human qualities of Fred Rosenbaum who considered teaching a high calling and demonstrated his dedication to the Society through tireless service. This year's recipients are **José Carlos Pedro and Robert Weigel**.

*"For outstanding contributions as a teacher, mentor, and role model for students in the microwave profession"*



## José Carlos Pedro

was born on March 7, 1962 in Portugal. He completed the high-school in Aveiro in 1980 and received the diploma, doctoral and habilitation degrees in electronics and telecommunications engineering, from University of Aveiro, Portugal, in 1985, 1993 and 2002, respectively.

From 1985 to 1988 he was a Practicing Assistant Lecturer, from 1988 to 1993 he was an Assistant Lecturer, and a Professor since 1993, all at University of Aveiro. Currently he is a Full Professor at the same university, and a Senior Research Scientist at the Institute of Telecommunications where he heads the Wireless Circuits and Systems Group.

Prof. Pedro introduced the teaching and research of microwave electronics in his university in 1993, being responsible for the supervision of 20 MSc and PhD students since then.

After a short career as an engineer, one of his former MSc students devoted himself to high-school teaching and won the 2013 IEEE Pre-University Educator Award. One of his PhD students is now a university professor and an IEEE Fellow, while another one is now the Advanced PA Concept Group Manager of the Ampleon (former NXP RF Power division).

His main scientific research interests include computer aided design, active device modeling and the analysis and design of various nonlinear microwave circuits, namely, power amplifiers and mixers.

Prof. Pedro was the principal scientist in several Portuguese Government research contracts and led several consulting contracts with national and foreign companies such as Applied Wave Research (USA), Nitronex (USA) or Huawei Technologies (Sweden and P. R. of China), beyond giving seminars and workshops in several other foreign companies and universities. He has also acted as a visiting professor in schools such as Chalmers University of Technology (Sweden), University of Malaga and University of Cantabria (Spain) or the University of Oulu (Finland).

He is the leading author of the book *Intermodulation Distortion in Microwave and Wireless Circuits* (Artech House, 2003), beyond co-authoring 3 more book chapters of international distribution. Beyond this, he has authored or co-authored more than 200 papers in international journals and symposia.

Prof. Pedro served the IEEE in the Portuguese MTT/AP/ED Joint Chapter, the MTT-11 Technical Committee on Microwave Measurements and as a reviewer and Associate Editor for the MTT Transactions and reviewer for the MTT-IMS and the EuMC.

Prof. Pedro has served his university department as Director of Studies of Electrical Engineering, Coordinator of the Scientific Council and as Department Head. He is currently the head of the committee responsible for attributing the tenure to all engineering professors and the president of the disciplinary council of the university.

Prof. Pedro received the Marconi Young Scientist Award in 1993 and the 2000 Institution of Electrical Engineers (IEE) Measurement Prize. In 2007 he was elected Fellow of the IEEE for his contributions to the nonlinear distortion analysis of microwave devices and circuits and in 2015 he received the European Microwave Conference Prize. Currently, he is an IEEE MTT-S Distinguished Microwave Lecturer.