



Manuel García Sánchez

Group Leader. Professor
Telecommunication Engineer (Ph.D.)

Biographical sketch

Manuel García Sánchez received the Ingeniero de Telecomunicación degree from the Universidad de Santiago de Compostela, Spain, in 1990 and the Doctor Ingeniero de Telecomunicación (Ph.D.) degree from the Universidad de Vigo, Spain, in 1996.

In 1990, he joined the Departamento de Tecnoloxías das Comunicacións, Universidade de Vigo. Currently, he is the Head of Department of Teoría do Sinal e Comunicacións , Universidade de Vigo, where he teaches courses in Radio Broadcasting and Radionavigation as a Catedrático de Universidad (Professor).

He has been Visiting Researcher at the Departamento de Señales, Sistemas y Radiocomunicaciones, Universidad Politécnica de Madrid, Spain, and at the Department of Electronics and Information Technology, University of Glamorgan, U.K.

His research interests include studies of indoor and outdoor radio channel sounding and modelling for narrow and wide-band applications at microwave and millimetre wave frequencies , point-to-multipoint radio links, mobile communications, UMTS, WLANs and DVB-T distribution networks.

Synergistic Activities

As Head of the Department during the 2003-2009 period I directed several actions to improve the educational, research and development activities and technology transfer to the industry. As a result of this the external funding for R+D activities increased from 396,000€ in 2003, to 584,000€ in 2004, to 1,452,000€ in 2005, and to 874.237 € in 2006, which represented a 23%

of the R+D external funding of the University. As a consequence our Department was at the top of ranking of the 33 university departments.

The Department was also at the top of the “scientific production”, measured as number of peer-reviewed publications, number of patents, and books.

New three year degrees have been implemented and also the Doctoral Program “Teoría de la Señal y Comunicaciones” that received a quality award from the Spanish Ministry of Science and Education.

I started a strong collaboration with Telefónica Móviles, which is the main mobile operator company in Spain and many other countries in South America. In 2000 we got a R+D project about UMTS in a call from this company to all the Technical Universities in Spain. Five projects were funded, one of which was the one I proposed and directed "Urban microcellular UMTS network". The collaboration continues with a second project related to the integration of Zigbee and UMTS.

Related to my educational activities I have been the only responsible to start a new subject for undergraduate students “Digital Broadcasting”. I have prepared all the lectures as well as the practices of this subject.

[back](#)