

Instituto de Telecomunicações - Leiria
Antennas & Propagation - Leiria Research Group

**Web page:**

<https://www.it.pt/Groups/Index/41>

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Research Topics:

Radio channel propagation modelling in vegetation media

RF measurement systems and channel sounder topologies

RF transparency control of building wall structures

Ray tracing based models for doubly selective radio channels

Radio system design at micro- and millimetre wav

Novel Antenna Beam Steering based on metamaterials and frequency selective surfaces for Wireless Applications

Comments :

The Antennas and Propagation – Lr (A&P-Lr) is a recent research group, currently with 2 senior researchers, 6 Ph.D students, several undergraduate and master students and more than 7 external highly reputed international researchers from 3 organisations in 2 countries. Established in 2011, the A&P-Lr undertakes a wide range of research covering the very broad range of frequencies from 1 to 60 GHz. It has a comprehensive experimental facilities housed in the Radio Systems laboratory at the School of Technology and Management of the Polytechnic Institute of Leiria (www.estg.ipleiria.pt), including one of the largest anechoic chambers in Portugal.

The Radio Systems Laboratory of the A&P-Lr comprises of an anechoic chamber (6x5x3 meters) with possibility of small vehicle access, coupled to full RF characterisation and measurement system capabilities and a multi-frequency channel sounder with doubly-selective channel measurement capability (multipath and Doppler), up to 26.5 and at 40 and 60 GHz.

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