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Special Session on Antennas for 5G communications

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Telmo Fernandes was born in Lousã, Portugal in 1973. He received his Ph.D degree in Radiopropagation from the University of Glamorgan, United Kingdom in 2007. He is currently an Assistant Professor in Telecommunications at the Instituto Politécnico de Leiria and he is a researcher with the Instituto de Telecomunicações (IT), Leiria, Portugal. His research interests include radiowave propagation in complex media, channel characterization, energy harvesting and small antennas.

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Pedro Pinho was born in Vale de Cambra, Portugal in 1974. He received the Licenciado and Master's degrees in Electrical and Telecommunications Engineering, and the Ph. D. degree in Electrical Engineering from the University of Aveiro in 1997, 2000, and 2004 respectively. He is currently an Assistant Professor in Electronics, Telecommunications and Computers Engineering Department in Instituto Superior de Engenharia de Lisboa (ISEL/IPL) and a Senior Member of the research staff in Instituto de Telecomunicações (IT), Aveiro, Portugal.

Scope of the session

The objective of this special session is to highlight research on advances & upcoming trends in Design of Antennas used for 5G communications. We aim to bring together academic researchers, engineers and research scholars from different domains on a common platform, to exchange their latest research findings and new advances in their fields. This special session aims to invite analytical, methodological and technological papers in the wide area of antennas for 5G and beyond, such novel antennas, novel measurement techniques and its applications for providing efficient solutions and future research directions. Theoretical and practical contributions in these areas are encouraged.

Prospective authors are invited to submit original and unpublished work on the following research topics related to this Special Session:

- *Electrically Small Antennas for 5G Applications*
- *Antenna Arrays for 5G and Beyond*
- *Metasurfaces for Mobile (5G and Beyond)*
- *5G Antenna Measurement Techniques*
- *Novel Wearable Antennas*
- *Reconfigurable Antennas for Compact Devices*
- *Antennas for 5G based Sensor Networks*
- *Vehicular Antennas for 5G Communications*