

Antenna and RCS Measurements

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Antenna Measurements have today a leading position in Applied Electromagnetics and uniquely appear under a keyword in many different but related areas of interest to Antenna Research and Industrial activities.

The aim of the Special Session is to cover some of the most relevant topics on Antenna and RCS Measurements, including the characterization of radiating systems for 5G, an exciting challenge and an important opportunity for the antenna measurement community, and the use of measurement systems based on Unmanned Aerial Vehicles (UAV) and robot arms.

The topics of the Special Session include (but are not limited to):

- Theory and applications of measurements of antennas and radar scattering;
- 5G antennas measurement methods;
- OTA Measurements;
- Advances in indoor and outdoor test ranges;
- Measurement standards and laboratory comparisons;
- Advances in near-field, far-field, compact and RCS range measurement techniques;
- New instrumentation for testing, data acquisition and processing;
- Diagnostic methods for antenna acceptance testing;
- GNSS, PCS, cellular, satellite, and automotive antennas and measurements;
- Numerical methods related to EM measurements;
- RFID characterization;
- Antenna calibration and uncertainty quantification;
- Wearable antenna designs and measurements;
- Multi-link MIMO and cooperative channels testing;
- In-situ testing and channel sounding;
- RF safety measurements;
- UAV/Robotic-based antenna measurements