

Industrial Workshop IW08

Working together with Fast Antenna Measurements and Numerical Simulation in Antenna Placement Scenarios (by Microwave Vision Group)



Abstract:

Numerical modelling of electromagnetic phenomena is advantageous for early stage investigating of antenna placement on large platforms due to ease of use, intuitive simulation codes and powerful hardware solutions. An important source of uncertainty in the modelling is the representation of the source antenna. Exact information is often unavailable for an accurate numerical model as the antenna manufacturers is unwilling to share their sensitive IPR with device and platform manufacturers.

In this workshop we will show how an accurate numerical model of the unknown antenna can be determined from measurements for antenna placement scenarios. The equivalent source model of the measured antenna is fully compatible with modern EM solvers.

Workshop Program (Wednesday, 24 March 2021, 11.40-12.10h)

The workshop consists mainly on oral presentations, based on power point slides.

Keynote speakers:

Lucia Scialacqua (MVG)

Lars Jacob Foged (MVG)

All the speakers were teachers during courses organized by the European School of Antennas and Propagation (ESoA).

Outline:

- Reconstruction of the equivalent currents.
- Preparations of the NF measured source.
- Combination of measurements and simulations for different antenna applications.

