

Industrial Workshop IW13

Simcenter 3D for Electromagnetics: update on new capabilities for antenna design, array design, system integration and environment modelling. (by Siemens)



Abstract:

Simcenter 3D is the multi-discipline, multi-physics platform from SIEMENS. Simcenter 3D provides an intuitive Geometry/CAD-centric user experience, for creating, handling and running 3D CAE models. The platform is multi-physics supporting Mechanical, Thermal, Fluid and Electromagnetics capabilities from one user environment. For Electromagnetics, Simcenter 3D integrates Low Frequency solvers and tools based on an adaptive, non-linear FEM framework. For the high frequency use cases, advanced full-wave solvers, based on MoM and MLFMA, complemented with asymptotic technologies are available. The workshop will show in particular the capabilities for High Frequency analysis, covering the design of antennas and radars, installation aspects and electromagnetic fields propagation. An example of antenna installation into a factory in context of 5G will be demonstrated.

Workshop Program (Monday, 22 March 2021, 12.30 – 13.30 h)

- Both Siemens and IDS experts will contribute to the workshop, on the one hand showing through demonstrations the capabilities of the solution as well as highlighting industrial experiences

