

## Industrial Workshop IW03

### Efficiently Simulating Connected Systems in Complex Environments: From Antenna Design & Placement on Sub-System Level to Communication between Systems of Systems (by Altair)



#### Abstract:

Not only the typical antenna design and placement challenges like achieving the best performance for the antenna in the right place can be dealt with using numerical simulation solutions but also the planning, implementation and operation phases of connectivity systems. Advanced radio network



planning & optimization as well as spectrum management & monitoring is an important aspect when looking into the full system performance in buildings, across a campus, in cities up to full nations. This workshop will show solutions for each step of the development process from the first antenna design to its final performance in the complex environment. The process as well as the methods behind will be discussed in more detail and application examples will highlight efficient solutions in different industry areas.

#### Workshop Program (Thursday 25 March 2021, 12.10h-13.40h)

In this practical workshop we will present both the theory and background of the numerical techniques used, as well as presenting application examples and real-world cases studies on how such a process is used in the industry today. It will be a combination of presentation and demonstration of the best insight in the process.