

SÉMINAIRE

INTER-PÔLES

IRSEEM

Thématique :

Simulations en CEM
automobile

irseem

ESIGELEC
SCHOOL OF ENGINEERING
SMART AND CONNECTED SYSTEMS

**UNIVERSITÉ
DE ROUEN**
NORMANDIE

 Jeudi 10 mars 2022

 14h30 - 15h00

 Amphi Robert VALLÉE

Nowadays the number of control units, sensors and actuators in vehicles has increased exponentially. These components and their appropriate cables can have several positions in the interior or exterior of a vehicle depending on the vehicle's structure. This affects the calculation of the coupling of disturbances on the vehicle's antenna significantly. The presentation will discuss the influences of the component's position and of the coupling impedance on the coupling paths. Furthermore the presentation will show the helpful of the simulation to understand and to investigate the electromagnetic disturbance in the vehicle by using the 1D- (circuit) and the 3D-electromagnetic field simulation. Aid of an example we will show together the benefit of the simulation to visualize the electromagnetic wave in an anechoic chamber according to CISPR 25 vehicle testing.



Oussama Sassi received the Dipl.-Ing. degree in electrical engineering from Leibniz university, Hanover, Germany, with focus on high frequency and communication engineering. Mr. Sassi is currently working toward the Ph.D. degree in Ecole Supérieure d'Ingénieurs (ESIGELEC), Rouen, France, with focus on calculation of the EMC Risk in vehicles.