



## Afif Osseiran



**Biography:** Afif Osseiran is director of radio communications at the Ericsson CTO office. He holds a doctorate degree from the Royal Institute of Technology (KTH), Sweden. One master's degree from École Polytechnique de Montreal, and another one from INSA Rennes, France. Since 1999 he held several positions at Ericsson. From 2012 to 2014, he managed METIS, the EU 5G flagship project. He has authored over 70 inventions, technical journals and conferences papers. He co-authored the first comprehensive book on 5G with Cambridge and two books on IMT-Advanced with Wiley. Dr. Osseiran is a senior member of IEEE.

**Session Title:** The 5G Main Building Blocks

**Abstract:** Up to now (4G) a new cellular generation implied the development of a new air interface in new frequency bands and with much higher data rate. For 5G, the reality is that the requirements go beyond the clear need to improve data rates. 5G has been conceived to address in all sectors of the economy such as automotive, construction, energy, manufacturing, etc. where communication is needed. 5G will create opportunities for each economic sector and the consequently possible improvements to productivity, energy efficiency, safety etc. In our talk we will summarize briefly the 5G use cases, requirements and exemplify some of the 5G main building blocks.