

Invitation to lecture on
**Introduction to SEAMCAT (Spectrum Engineering
Advanced Monte Carlo Analysis Tool)**

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SEAMCAT[®] (www.seamcat.org) is a software tool based on the Monte-Carlo simulation method, which is developed within the frame of European Conference of Postal and Telecommunication administrations (CEPT). This tool permits statistical modelling of different radio interference scenarios for performing sharing and compatibility studies between radiocommunications systems in the same or adjacent frequency. SEAMCAT is used by many regulatory agencies across the world for various spectrum sharing and compatibility studies such as between mobile systems and terrestrial broadcasting networks.

The lecture / hands on session will start by presenting the modelling principles used by SEAMCAT and how to configure a coexistence scenario between heterogeneous radio systems.

Several hands-on examples will be performed and discussed on the following topics:

1. Unwanted emissions and receiver performance concepts;
2. Co-channel interference between fixed links;
3. Adjacent-channel between mobile systems;
4. Modelling Interference scenario between 5G systems and fixed satellite systems.