

On the impact of statistical description of antennas on deterministic urban channel simulations

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Abstract:

Preliminary results of a study on the the impact of statistical description of antennas with respect to pathloss are presented in this paper. Propagation in an urban scenario is modeled with Siradel ray-based deterministic tool. Different base station scenarios are discussed: antenna in proximity of a wall, antenna mounted on a lamppost and antenna on a bus stop shelter. The statistical influence of the support is evaluated comparing the results with the ones obtained when the isolated antenna radiation patterns are considered.