

On the Impact of Antenna Disturbances by Urban Furniture on Deterministic Propagation Simulations

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Abstract:

In this work we study the impact of antenna radiation patterns disturbed by urban furniture on propagation characteristics. The propagation in urban scenario is modeled with a ray-based deterministic tool. Different base station scenarios are discussed: antenna in proximity of a wall, antenna mounted on a lamp-post and antenna on a bus-stop shelter. The statistical influence of the support is evaluated comparing the results in terms of pathloss with the ones obtained when the isolated antenna radiation patterns are considered.