

Empirical Propagation Model for the Container Terminal Environment

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Abstract:

In the paper the empirical propagation model for mobile radio links in a container terminal environment is presented and the investigated environment (Gdansk Deepwater Container Terminal in Poland) is characterized. Described empirical model was elaborated on the basis of almost 290 thousand propagation path measurements in real conditions. The diversity of conditions occurring in different places of the container terminal has been taken into account in the new model. For this reason, the terminal was divided into three sub-areas, where different propagation mechanisms have a crucial influence on basic transmission loss. The results of statistical evaluation of the new model are discussed.