

Abstracts

Space Diversity and Polarisation Diversity Enhance the Performance of a 5.8GHz Radio Link for Traffic Management Systems

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A suitable transmission medium for future individual traffic management systems is the short range system with a radio link operating at 5.8 GHz. In multipath fading channels reflected waves may produce interferences in the communication. In this paper, space diversity and polarization diversity are discussed as a solution to meet these problems. Investigations are based on a statistical channel model. This model is an extension of a deterministic model, which is already confirmed by measurements.

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