

System Level Evaluation for Vehicular MIMO Antennas in Simulated and Measured Channels

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Abstract:

In this contribution, we present a system level based evaluation metric for automotive multiple-input-multiple-output (MIMO) antennas. We introduce suitable performance indicators and assess the proposed metric both by simulation and measurements in fading channels. The approach enables an evaluation of MIMO antennas for automotive use, which includes effects due to vehicular integration or channel conditions, which have an impact on the overall system performance.