Extension of ITU IMT-Advanced Channel Models for Elevation Domains and Line-of-Sight Scenario

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Abstract:

In this contribution, the 3-dimensional (3D) channel characteristics, particularly in the elevation domains, are extracted from measurement data collected in typical urban macro and micro environments in the city of Xi'an, China. Stochastic channel models are established based on high-resolution multi-path parameter estimates. Additionally, a modified spatial channel model (SCM) for the line-of-sight (LoS) scenario is proposed where the LoS polarization matrix is parameterized in accordance with reality. Measurement results demonstrate the reasonability of the proposed model.