

Channel measurements results on elevation related parameters in O2I, UMa, and UMi scenarios

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Abstract:

In 3GPP's previous studies, using 2D channel model was accurate enough in most times, since elevation angle of multipath components can be neglected in most cases. However, spatial domain multiplexing and beamforming techniques are of great interests, especially in elevation domain. Therefore, separating elevation domain multipath components would be necessary for channel modelling. Generally, extending existing 2D models to 3D need additional consideration of elevation domain parameters, including EoA, EoD, ESA, and ESD. WINNER II and WINNER+ has also some studies related to extending channel model to 3D. In this contribution, the elevation related parameter values for the extension from 2-dimensional channel model to 3-dimensional channel model based on channel measurement campaign in O2I, UMa, and UMi scenarios.