Channel Measurement and Modeling for 5G Urban Microcellular Scenarios

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Abstract:

This paper briefly addresses the challenges for developing appropriate channel models for next generation mobile networks at higher frequencies on the basis of channel measurements. Results from three channel measurement campaigns at 60 GHz (and 10 GHz) conducted by Fraunhofer HHI are presented and summarized. They are related to the urban microcellular (UMi) access channel in street canyons and on an open square. First results of accompanying ray tracing simulations are discussed.