ANALYSIS OF MIMO-OFDM FOR FUTURE WIRELESS COMMUNICATION

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Orthogonal frequency division multiplexing (OFDM) is a popular method for high data rate in Gbps for future wireless transmission anytime anywhere In any direction. OFDM may be combined with antenna arrays at the transmitter and receiver to increase the diversity gain and/or to induces the system capacity on time-varying and frequency-selective channels, resulting in a multiple-input multiple-output (MIMO) configuration. The paper contains various physical layer research challenges in MIMO-OFDM system design, including physical channel measurements and modeling , Signal To Noise Ratio , Channel Capacity,Two Ray Model,Free Space Model in received power distance in Kms from transmitter, Channel Estimation, and Channel Tracking in MIMO-OFDM systems. Finally paper consider for future wireless MIMO-OFDM.

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