Abstract

This Paper aims at evaluating the performance of 3GPP Long Term Evolution (LTE) Downlink system under Urban Microcell Scenario for different MIMO transmission schemes. The performance parameters such as, Bit Error Rate (BER) and the Data Throughput are reported in terms of Signal to Noise Ratio (SNR) for different types of transmitting antenna and Modulation scheme. Transmit diversity scheme known as Space Frequency Block Codes (SFBC) and
Open Loop Spatial Multiplexing (OLSM) scheme are considered in the evaluation. The investigations reported in this paper helps in estimating the optimum switching conditions between two MIMO approaches for fixed antenna spacing at transmitter and receiver.

References

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Index Terms

Computer Science  Wireless Communication

Keywords

Mimo  Ber  Spatial Multiplexing  Transmit Diversity