

Improved Performance Scheme for Joint Transmission in Downlink Coordinated Multi-Point Transmission

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Abstract : In this paper, improved performance scheme for joint transmission is proposed in downlink (DL) coordinated multi-point (CoMP) in case of constraint transmission power. This scheme is that serving transmission point (TP) request a joint transmission to inter-TP and selects one pre-coding technique according to channel state information (CSI) from user equipment (UE). The simulation results show that the bit error rate (BER) and throughput performances of the proposed scheme provide high spectral efficiency and reliable data at the cell edge.

Keywords : CoMP, joint transmission, minimum mean square error, zero-forcing, zero-forcing dirty paper coding

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