

عنوان مقاله:

CSI Feedback Reduction Techniques for Cellular Downlink with Coordinated Multi-Point Transmission

محل انتشار:

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خلاصه مقاله:

MIMO downlink with base station coordination in a cellular network is considered. In centralized coordinated transmission from a cluster of base stations, the channel state information (CSI) of users needs to be sent to a central processor for precoding and resource allocation. Real time CSI feedback from the users to their home base station and from the base stations to the central processor is a serious challenge from a practical point of view. CSI feedback schemes based on user channel strength and distance of a user to its home base station are proposed that reduce feedback overhead while having not much affect on system throughput. Numerical results show the effectiveness of the proposed schemes.

کلمات کلیدی:

Coordinated multi-point transmission (CoMP), MIMO, Downlink, CSI reduction

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