

عنوان مقاله:

Investigation of a Simple Symbol Combining Scheme at DF Relays for BICM-OFDM Cooperative Systems

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خلاصه مقاله:

In this paper, performance analysis of a new scheme for linear symbol combination at relays for cooperative communication systems is considered. We employ Bit Interleaved Coded Modulation (BICM) and Orthogonal Frequency Division Multiplexing (OFDM), performing over frequency selective channels. Relays operate in DF mode and the effect of their erroneous detection will be considered. We present a closed form of the asymptotic worst-case pairwise error probability (PEP) at the destination for the proposed system. It will shown that this system exploits the full spacial and frequency diversity. Finally, the simulation results reveal the analytical derivations and confirm the diversity gain of the system, and provide a comparison between two competing method

کلمات کلیدی:

wireless network , Bit-interleaved coded modulation , Orthogonal frequency division , cooperative relaying , decode and forward , linear combination

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