

Adaptive Joint Self-Interference Cancellation and Equalization for Space-Time Coded Bi-Directional Relaying Networks

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(Pt9)Abstract— In this paper, we propose an adaptive receiver for joint self-interference cancellation and equalization in an amplify-and-forward (AF) bi-directional relaying network. In particular, we develop an efficient receiver that does not require the complex matrix inversions. The performance of the proposed scheme is demonstrated by computer simulations.

(Pt9)Keyword— Adaptive receiver, bi-directional relaying network, equalization, joint detection, self-interference cancellation.



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