Abstract

Wireless technology has two main uses. One is mobile and the other is fixed wireless. Mobile systems are fragile so far as data robustness is concerned. To make system reliable for services that use high data rate such as triple play, they need to have a resilient communication technology. For high data rate services, MIMO systems are used in 4G technology. Cooperative networks are being used to avoid signal impairments and power attenuation in various networks. This paper is a work on WiMAX LDPC technology which is employed with cooperative network. Several channel models are used to check robustness of the system. The simulation is made by setting certain parameters. The channel capacity approaching coding technique LDPC having coding gain method BICM-ID is also used. These parameters are precondition to simulation that is being made here.

The research work focuses on the performance analysis of WiMAX system using the LDPC and BICM technique. A comparative analysis of the system is also carried out in the end with the contemporary research and inference is pointed based on those results.
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Keywords

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