Abstract

IEEE 802.16 standard for Broadband Wireless Access (BWA) and its associated industry consortium, Worldwide Interoperability for Microwave Access (WiMAX) forum promise to offer high data rate over large areas to a large number of users where broadband is unavailable. The emergence of WiMAX has attracted significant interests from all the fields of wireless communications. WiMAX-MIMO systems which are created under different fading channels can be implemented to get the benefits of both WiMAX and MIMO systems. This paper analyzes different higher level modulations on WiMAX-MIMO systems with different code rates for Rayleigh channel. Spatial Diversity technique is taken into consideration for the simulation purpose. Signal-to Noise Ratio (SNR) vs Bit Error Rate (BER) analysis has been done.

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Analysis of WiMAX Physical Layer using Spatial Diversity

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Index Terms

Computer Science

Image Processing
Keywords
Bwa  Wimax  Mimo  Snr  Ber  Fec  Cc  Phy