Abstract

Link adaptation is an essential part of wireless communication in order to guarantee required QoS in dynamically varying channel by changing the transmitter parameter according to channel condition in order to utilize spectrum must efficiently. This work proposes a noble producer for link adaptation with adaptation of carrier spacing of OFDM based communication system according to the channel condition. This method of link adaptation may mitigate the need of perfect carrier frequency offset (CFO) estimation at the receiver side. The simulation result shows the switching levels for different types of channel described by standford University Interim (SUI) models for IEEE 802.16 based system using fixed threshold based
Link Adaptation of OFDM Wireless System using Adaptive Carrier Spacing Method

algorithm.

References


Index Terms

Computer Science

Wireless Communication

Keywords

Link Adaptation  Ofdm  Cfo  Subcarrier Spacing  Sui-model  ieee 802. 16