Abstract

The paper deals with the packet scheduling of voice traffic of IEEE 802.16e under femto cellular network where the length of wireless link is few meters. Instead of distribution of MCS (Modulation and Coding Scheme) levels of previous literature, only availability of traffic channel is considered in packet scheduling since the short wireless link of femto cell is not affected by multipath fading like the link of micro cellular network. The steady probability states of the proposed model is compared with the existing model of WiMAX under Rayleigh fading environment. Finally the performance of the network is measured based on throughput, mean queue length and blocking probability.

References


Index Terms

Computer Science Networks

Keywords

Throughput, steady probability states, packet scheduling, transition matrix and mean queue length.