Abstract
WiMAX technology enables ubiquitous delivery of wireless broadband service for fixed and mobile users, the scalable architecture, high data throughput and low cost deployment make Mobile WiMAX a leading solution for wireless broadband services. The Mobile WiMAX Air Interface adopts Orthogonal Frequency Division Multiple Access (OFDMA) for improved multi-path performance in non-line-of-sight environments. In this paper we are evaluating the performance of mobile WiMAX 802.16e physical layer for different data types like Image, Speech, Text, Random data using different modulation schemes like BPSK, QPSK, 16-QAM, 64-QAM with varying data rates and SNR.

References

- Coexistence Study in the 2500-2690 MHz Band between WiMAX and WCDMA Systems by Zheng Ruiming, Zhang Xin, Li Xi, Hai Yang, Yang Dacheng, Beiijing, P. R. China, 2009.

Index Terms

Computer Science
Electronic Design And Signal Processing
Keywords
Mobile WiMAX  Rs Encoder  Interleaver  OFDM  BPSK  QPSK  AWGN Channel  64-QAM
Data rate
SNR
Randomizer