Abstract

WiMAX, is the modern technology for providing broadband wireless access over long distance communication here we are adopted orthogonal frequency division multiple access (OFDMA) and single carrier frequency division multiple access (SC-FDMA) scheme for the uplink transmissions, SCFDMA utilizes single carrier modulation and frequency domain equalization. In this paper, we are presenting a Raised Cosine and Root raised cosine scheme to reduce the peak-to-average power ratio (PAPR) of SCFDMA signals. The current scheme can transform the original SC-FDMA signals into Raised Cosine and Root Raised Cosine like distributed. Moreover, the scheme use IFDMA for compress the large signals and repetition while DFDMA for allocating different subcarriers. Computer simulation results show that the proposed SC-FDMA scheme can offer better PAPR compare to OFDMA.

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Index Terms

Computer Science

Networks

Keywords

WiMAX OFDM OFDMA SCFDMA PAPR.