A Novel Study on Design to Reduce PAPR and ISI in Multi-Carrier OFDM System

Abstract

This paper provides a review on a new scheme for PAPR reduction in OFDM System. OFDM system mainly used to provide orthogonality of OFDM signals. This system used Fast Fourier Transform (FFT) for modulation and inverse Fast Fourier Transform (IFFT) for demodulation purposes. In this paper, we will discuss the overview of OFDM system which consist OFDM system model and notation, OFDM transmitter and its receiver structure, concepts of orthogonality. It also describes inter-symbol interference problem, high peak-to-average power ratio (PAPR) problem and generate a taxonomy of the available solutions to mitigate the problem. The high PAPR will cause the degradation of performance of system and hence high order filter will be implemented in system using MATLAB tool.

References


Index Terms

Computer Science  Signal Processing

Keywords

OFDM System, PAPR Reduction, ISI method etc.