Reducing PAPR from the Transmitted Signal by the Application of Clipping and Filtering Mechanism

Abstract

OFDM is digital multi carrier modulation mechanism used to carry large amount of data from source to destination by following frequency division multiplexing mechanism. Large number of closely related sub carriers is used for carrying data forward. Problem of PAPR starts to originate as more and more data is transferred forward. Peak to average power ratio degrades the performance of the system. In order to overcome the problem hybrid approach of Clipping and Filtering is used. The approach is simulated in MATLAB. The performance analysis indicates better performance as compared to individual approach of SLM and Clipping.

References

2. A. Jayaprakash and G. R. Reddy, “Covariance Fitting Based Blind Carrier Frequency


**Index Terms**

Computer Science  
Signal Processing

**Keywords**

OFDM, Modulation, PAPR, SLM, Filtering, Clipping