

A Review of PAPR Reduction Techniques for UFMC Waveform

This paper addresses the usage of the Universal Filtered Multi Carrier (UFMC) band. UFMC is a multicomponent network modulation technique (5G). In this paper we discuss the different modulation technologies for 5 G technology and support the need for UFMC technology in wireless 5 G communication. Some drawbacks such as lateral band leakage, high Peak to Average Power ratio (PAPR) and spectrum utilization are used to decrease the performance of the system in 4 G OFDM modulation technique. Though, with the introduction of Internet of Things (IOT) and the transition to user-centered computing, it is difficult to utilize the OFDM methodology. There are still some problems in realistic terms of a single-carrier strategy called filter bank multi carrier (FBMC) which is stronger than OFDM. And a switch to a separate strategy named Universal Filtered Multi Carrier (UFMC) is used due to efficient usage of the spectrum by considering the formats above. This article also explains the PAPR reduction method in 5G waveform (UFMC). The usages of the UFMC waveform in 5G system to achieve the requirements are many useful than the OFDM waveform.