

ABSTRACT

Orthogonal Frequency Division Multiplexing (OFDM) is a modulation technique of multicarrier that capable to give solution to the communications system of wireless this time. OFDM have big efficiency of bandwidth, can overcome the problem of fading selective frequency and hold up to spread delay. Main problem in OFDM systems is large PAPR (Peak to Average Power Ratio) where the peak power of OFDM signal will much bigger than the average.

Selective Mapping (SLM) technique are the best technique to reduce PAPR. On the Final test, using selective mapping (SLM) with channel coding. Channel coding are Turbo Coding.

Result of simulation show that addition the amount of phase factor (U) in SLM will improve reduction of PAPR. With SLM modification will give better performance to random the phase position and adding it to information sequences. Maximum PAPR to SLM modification approach is 5 – 7 dB, with OBO = 6 and subcarrier = 128, 256