

International Journal of Computer Science and Mobile Computing

A Monthly Journal of Computer Science and Information Technology



ISSN 2320-088X

International Conference on Mobility in Computing- ICMiC13, Organized by Mar Baselios College of Engineering and Technology during December 17-18, 2013 at Trivandrum, Kerala, India, pg.173 – 179

SURVEY ARTICLE

An Efficient PAPR Reduction Technique for Mobile Terminals

Beena A.O¹, Sakuntala S. Pillai²

¹LBS Centre for Science & Technology, Trivandrum, India,

²Mar Baselios College of Engineering & Technology, Trivandrum, Kerala, India

¹ aobeena@gmail.com; ² sakuntala.pillai@gmail.com

Abstract— *Orthogonal Frequency Division Multiplexing (OFDM) is an efficient method of data transmission for high speed communication systems. In the present era, it has been under intense research for broadband wireless transmission due to its robustness against multi-path fading. The main drawback of OFDM system is the high Peak to Average Power Ratio (PAPR) of the transmitted signals, which reduces the efficiency of transmit high power amplifier. In this paper, a novel scheme, in which a joint partial transmit sequence and clipping method is proposed for PAPR reduction. Simulation results show that the proposed scheme can give significant PAPR reduction while maintaining good performance in the BER.*

Keywords— *Orthogonal Frequency Division Multiplexing (OFDM); Peak to Average Power Ratio (PAPR); Partial Transmit Sequence (PTS); Cumulative Complementary Distribution Function (CCDF); Inverse Fast Fourier Transform (IFFT); Bit Error Rate (BER); Phase Shift Keying (PSK); Clipping.*

Full Text: <http://www.ijcsmc.com/docs/papers/ICMIC13/ICMIC13S20.pdf>