International Journal of Engineering Sciences Paradigms and Researches (IJESPR)
(Vol. 30, Issue 01) and (Publishing Month: May 2016)
(An Indexed, Referred and Impact Factor Journal)
ISSN: 2319-6564
www.ijesonline.com

Abstract Details

Title: Performance Analysis of Long Term Evolution using MATLAB Simulink

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Abstract: Long Term Evolution (LTE) as a 4G wireless communication aims to cover long distance with high data rate. The signal is paired by different parameters such as AWGN, Multiple Access User Interference and Mobile Fading; which reduce the system performance in terms of QOS against capacity. This paper aims to study the degradation parameters for LTE system. The values that were taken in consideration for the evaluation process are (AWGN) Additive White Gaussian Noise in the downlink, Fading, Bandwidth, Maximum Doppler Shift, and Cyclic Prefix to perform the LTE system in term of QOS such as SNR and BER. The analysis of the different conditions was made by using MATLAB Simulink software to evaluate and analysis the performance.

Keywords: LTE, QOS, AWGN, BER, SNR.