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Published By: Blue Eyes Intelligence Engineering & Sciences Publication Pvt. Ltd.

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Authors: Mohd. Abuzer Khan, Deepak Bicholia, Smita Patil

Paper Title: A Review on OFDM Based WiMAX System

Abstract: In this paper, we present the review on the OFDM based WiMAX system and its various versions. Worldwide Interoperability for Microwave Access has a acronym WiMAX. It is a PTP & PMP wireless technology which is based on IEEE 802.16 standard. WiMAX is a wireless technology that supports high speed data service, video and voice at the customer side. WiMAX technology could be used to overcome the problems like less coverage area, low data rate and less security. WiMAX technology has various versions that are 802.16d (fixed WiMAX) and 802.16e (mobile WiMAX). OFDM is an amalgam of multiplexing and modulation. Through this review paper, the observation has been done of the different modulation techniques and different wireless channels. The outcome of this review will provide a basic idea about the amendment of the WiMAX system by using Orthogonal Frequency Division Multiplexing technology.

Keywords: WiMAX, OFDM, ICI, ISI, Doppler shift, Channel estimation, BER, SNR, Cyclic Prefix.

References:

Authors: V. N. S. Manaswini, Y. Gayathri, Gowtham Mammadsetti

Paper Title: BSN with GSM

Abstract: In this paper, Body Sensor Network Based Health Monitoring System is presented. In these days where mobility is needed everywhere wearable gadgets monitoring of health parameters for patient with medical warning is essential. To address the need of such patients this system is proposed. The proposed BSN uses miniature sensors to detect the health parameters. These health parameters are then communicated to physician’s server. The physician set various threshold values for the health parameters to caution the patient. The caution messages are generated by the physician’s server to send back the physicians advice to the patient on his current health condition. The communication of patient health parameters to physician server and physician advice to the patient are successfully implemented using long range wireless technology GSM.

Keywords: Body Sensor Network(BSN); HMS (Health Monitoring System);GSM (Global System for Mobile Communication); Health Parameters; Miniature Sensors; Physician’s server

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1. R.S.H. Istepanian, E. Jovanov, Y.T. Zhang, —Guest Editorial Introduction to the Special Section M-Health: Beyond Seamless Mobility and Global Wireless Health-Care Connectivity‖, IEEE Transactions on information technology in