

{tag} International Journal of Computer Applications
Foundation of Computer Science (FCS), NY, USA

[Volume 169](#)

-
[Number 8](#)

Year of Publication: 2017

Authors:

E. Govinda, Srilatha Indira Dutt Vemuri

10.5120/ijca2017914864

{bibtex}2017914864.bib{/bibtex}

Abstract

MB-OFDM UWB correspondence innovation utilizes orthogonal UWB pulse succession and different sub-channels with attaining dependable secondary information rate transmission and ghastry effectiveness. The framework execution is being broke down in the multipath blurring channel, utilizing S-V channel model. The spot slip rate is assessed in LOS & NLOS channels. The utilization of fixed point reproduction stage will be constructed as stated by MB-OFDM plan suggested eventually, Tom's perusing MB-OFDM collusion and the recompense plan may be in view of stage payment. The LOS and NLOS channels will be processed with effective Viterbi decoding technique proposed for communication systems. This model ensures considerable Performance in Channel receiver.

References

1. A. Batra, J. Balakrishnan and A. Dabak, "Multi-band OFDM: a new approach for UWB", Internat.Symp. on Circuits Systems, May 2004.

2. A. Batra, J. Balakrishnan, A. Dabak and et al., "Multi-Band-OFDM Physical Layer Proposal for IEEE 802.15 Task Group 3a", IEEE P802.15-03/268r3, March 2004.
3. S. Sadough, A. Mahmood¹, E. Jaffrot, Pierre Duhamel," Performance Evaluation of MB-OFDM based UWB System", Journal of Iranian Association of Electrical and Electronics Engineers - Vol.4- No.1- Spring and summer 2007.
4. A. Batra, J. Balakrishnan and A. Dabak, "Multi-band OFDM: a new approach for UWB", Internat.Symp. on Circuits Systems, May 2004.
5. A. Saleh and R. Valenzuela, "A Statistical Model for Indoor Multi-path Propagation", IEEE JSAC, Vol. SAC-5, pp. 128-137, Feb. 1987.
6. A. Batra, J. Balakrishnan, G. R. Aiello, J. R. Foerster and A. Dabak, "Design of a Multi-Band OFDM system for realistic UWB channel environments", IEEE Transactions on Microwave Theory and Techniques, Vol. 52, Issue 9, pp. 2123-2138, 2004.
7. Ch. Sasmita Das, Bikramaditya Das, Susmita Das, Member, IEEE," Efficacy of Multiband OFDM Approach in High Data Rate Ultra WideBand WPAN Physical Layer Standard using Realistic Channel Models", International Journal of Computer Applications (0975 – 8887) Volume 2 – No.2, May 2010
8. Yuqiang Zhang, Junhui Zhao," Performance Simulation of Fixed-Point for MB-OFDM UWB system", IEEE2005.

Index Terms

Computer Science

Signal Processing

Keywords

Convolutional encoder, MB-OFDM system, UWB, Viterbi decoder