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Comparison between Bit Error Rate And Signal To Noise Ratio in OFDM Using LSE Algorithm

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Available Online April 2013.

Abstract

In this paper we are going to investigate the performance of Least Squares Error (LSE) Algorithm in OFDM channel estimation. It is based on the energy of pilot tones and data symbols. We first calculate the mean square error (MSE) of the LS channel estimate. LSE algorithm is used to enhance the channel estimation. Through simulation we learn that there is a considerable gain in signal to noise ratio (SNR) and minimization of bit error rate (BER).

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**Volume Title**

Proceedings of the Conference on Advances in Communication and Control Systems (CAC2S 2013)

Series

Advances in Intelligent Systems Research

Publication Date

April 2013

ISBN

null

ISSN

1951-6851

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Cite this article

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bib

TY - CONF
AU - Raghav Pandey
AU - Ashwani Awasthi
AU - Vikas Srivastava
PY - 2013/04
DA - 2013/04
TI - Comparison between Bit Error Rate And Signal To Noise Ratio in OFDM Using LSE Algorithm
BT - Proceedings of the Conference on Advances in Communication and Control Systems (CAC2S 2013)
PB - Atlantis Press
SP - 463
EP - 466

SN - 1951-6851
UR - <https://www.atlantis-press.com/article/6357>
ID - Pandey2013/04
ER -

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