Abstract

The wireless communication system is highly desirable field among the researchers these days because of the increasing demand of high speed of networks to serve on the next generation mobile devices. The various researches already completed but the reliability like leased line hasn’t achieved yet. The end to end performance of the system still needs to be improved. In this paper same we are trying to improve. The figure of merit is Bit Error Rate (BER). The proposed approach depends on multiple input single output (MISO) system which significantly improves the performance. Now to improve more the Alamouti STBC with 4th Order FIR filter is implemented. The filtering approach have changed picture of the system by reducing the error probability. BER performance achieved in this paper is better than existing work.

References

A Novel Strategy for Performance Improvement of MISO Wireless System using Alamouti STBC with 4th order FIR Filter

- Gogoi, P.; Sarma, K. K., 2012, "STBC coded MISO and MIMO set up in frequency selective wireless fading channels for BPSK and QPSK modulation schemes", Computational Intelligence and Signal Processing (CISP).
- Nguyen Trung Hieu, Nguyen Thanh Tu, Nguyen Viet Ha, Tran Thi Thao Nguyen, and Bui Huu Phu, 2012, "FPGA Implementation of MIMO-OFDM STBC Systems", International Conference on Control, Automation and Information Sciences , IEEE.

Index Terms

Computer Science

Keywords

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