Abstract

This paper deals with the blind channel estimation in CP MIMO-OFDM system based on subspace algorithm with reduced time samples to get time invariant system, eliminating the pilot based channel estimation and utilizing the bandwidth. This paper uses the statistical blind estimation technique by using second order statistic and in this the estimates can be obtained in a simple form by optimizing a quadratic cost function. These algorithms use the orthogonality of the noise and signal subspaces of the correlation matrix of the received signals to estimate the unknown channel coefficients. Simulation results show that the proposed approach improving the performance, observed by the graphs SER/SNR and MSE/SNR.

References

- L. Tong, G. Xu and T. Kailath, "A new approach to blind identification and


Performance Enhancement of CPMIMO-OFDM System using Blind Channel Estimation


Index Terms

Computer Science Communication

Keywords

Blind channel estimation MIMO-OFDM CPSOS ZPSOS mean square error subspace algorithm.