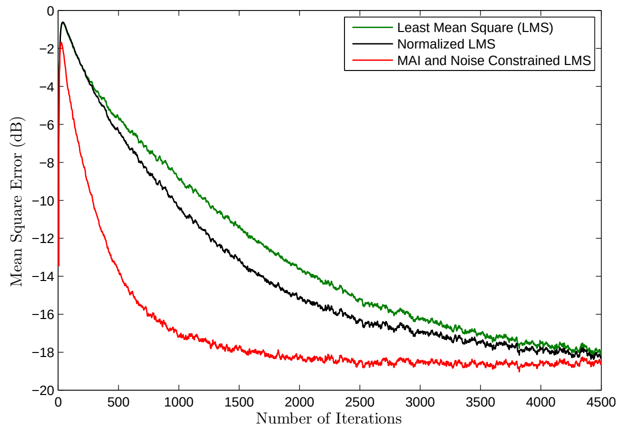

Fig. 3: Mean squared error performance comparison in an AWGN setting with 20 dB SNR and phase reversal keying modulation scheme

Fig. 4: Mean squared error performance comparison in AWGN setting with 20 dB SNR and quadrature phase shift keying modulation scheme

the Rayleigh channel environment using quadrature phase shift keying modulation scheme. Our algorithm has outperformed the other competing algorithms.

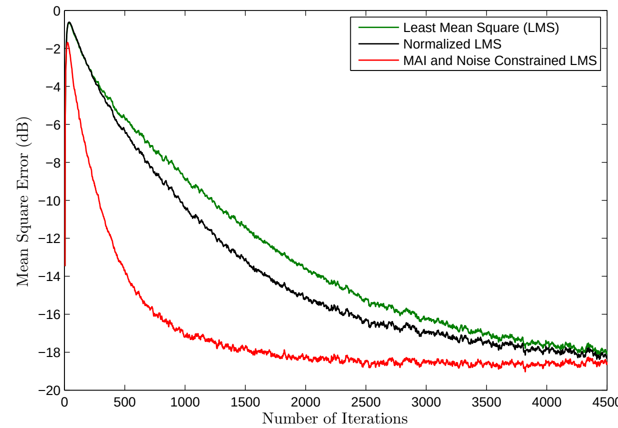

Fig. 5: Mean squared error performance comparison in Rayleigh channel environment with $f_d = 250$Hz and 20 dB SNR using phase reversal keying modulation scheme

Fig. 6: Mean squared error performance comparison in Rayleigh channel setting with $f_d = 250$Hz and 20 dB SNR using quadrature phase shift keying modulation

VI. Conclusion

In this paper, an MAI and AWGN variance constrained algorithm for a MIMO CDMA DFE is developed. Performance of the the proposed algorithm is compared to the least mean squared as well as normalized least mean squared algorithms. Simulation results demonstrate that our algorithm has outclassed the competing algorithms.

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