

Fig. 9. Mean squared error (MSE) behavior for comparing algorithms in the Rayleigh fading environment for 20 users at 20 dB SNR

Fig. 10. Mean squared error (MSE) performance in Rayleigh fading environment with $f_d = 250\text{Hz}$ at SNR=20 dB

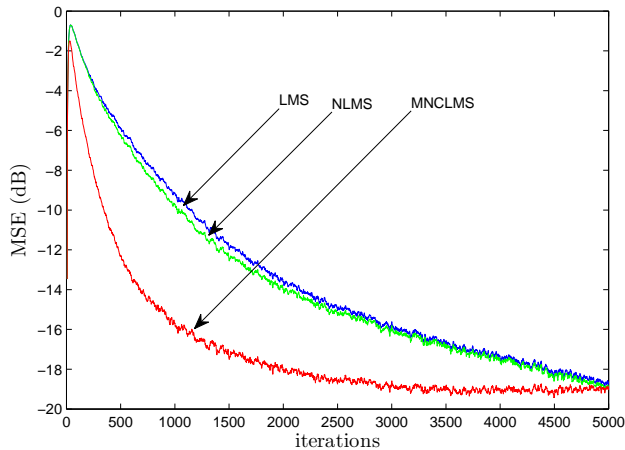


Fig. 11. Mean squared error (MSE) performance in Rayleigh fading environment with $f_d = 250\text{Hz}$ at SNR=20 dB

VII. CONCLUSION

A performance comparison between a MNCLMS algorithm for MIMO CDMA, DFE and LE cases is performed in this paper. Both algorithms are constrained on the length of spreading sequence, number of users, statistics (variances) of AWGN, MAI and additive noise. Simulation results are presented to compare the performance of the MNCLMS constrained algorithms in both cases and it is found that while both algorithms outperformed other constrained algorithms but when compared to each other, DFE has outperformed the LE.

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