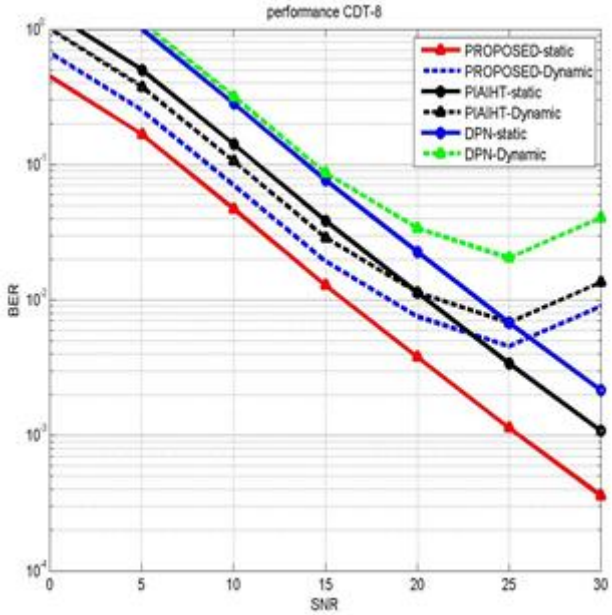

Figure 4: BER performance comparison of proposed scheme with existing scheme and DPN-OFDM scheme in CDT-8 channel

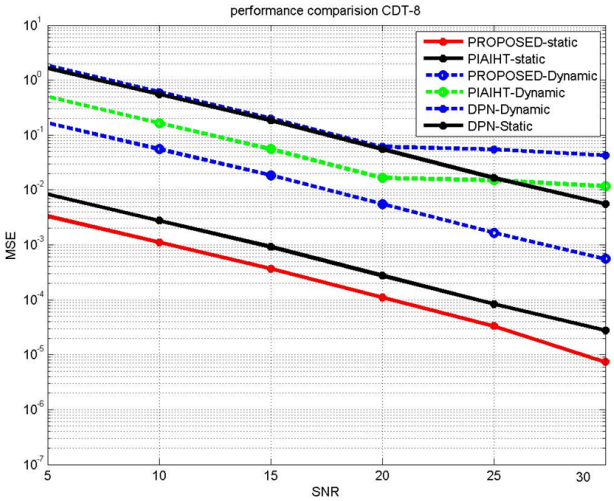

Figure 5: MSE performance comparison of proposed scheme with existing scheme and DPN-OFDM scheme in CDT-8 channel.

The figure 5 represents MSE performance comparison of proposed scheme with existing scheme and DPN-OFDM scheme in CDT-8 channel. Here performance is better for proposed scheme than existing and DPN-OFDM scheme because MSE is lower. Also static case has less MSE than dynamic cases because parameter variation is less in static scenario as compared to dynamic scenario.

6. Conclusion

A low complexity, high accurate channel estimation scheme known as Auxiliary information based Subspace Pursuit algorithm is introduced in this paper. ASP channel estimation is used here for accurate channel estimation in TFT-OFDM system. Moreover the proposed system uses LDPC codes for channel error detection and correction. Simulation results shows that the proposed channel estimation scheme has good performance in both static and dynamic mobile scenarios. The MSE performance of this method outperforms the conventional schemes. The main advantages of this scheme are the proposed scheme uses only a small amount of frequency domain pilots for exact channel estimation and also it requires less number of iteration.

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