Abstract

Multi input multi output system (MIMO) has become a viable option to meet the demand of high data rate wireless communication. But MIMO system performance is severely affected by the presence of co-channel interference (CCI). CCI cancellation in MIMO channel therefore is a challenging area of research. This paper provides a Kalman Filter based CCI cancellation approach which is connected to phase tracking performance of the system. Experimental result in the severely faded Rayleigh channel show that Kalman filter based approach for CCI cancellation in the considered MIMO channel provides reliable results and can thus prove to be a satisfactory CCI cancellation technique in future.
Phase Tracking and CCI Cancellation in Severely Faded Rayleigh MIMO Channel

References

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