



LINEAR MULTIUSER RECEIVERS FOR ASYNCHRONOUS MC-CDMA SYSTEMS (ThuPmOR8)

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★ **Abstract :** In this paper, we propose a linear multiuser receiver for asynchronous MC-CDMA systems. The proposed receiver consists of two stages, namely a bank of MRC receivers and a MMSE multiuser detector, and it relies both on channel and delay estimation. The performance of the receiver is greatly improved with respect to the simple MRC approach. Moreover, the additional complexity is moderate, so that the proposed approach is well suited for practical applications.