

Study of Adaptive Filtering Algorithms and the Equalization of Radio Mobile Channel

Authors : Said Elkassimi, Said Safi, B. Manaut

Abstract : This paper presented a study of three algorithms, the equalization algorithm to equalize the transmission channel with ZF and MMSE criteria, application of channel Bran A, and adaptive filtering algorithms LMS and RLS to estimate the parameters of the equalizer filter, i.e. move to the channel estimation and therefore reflect the temporal variations of the channel, and reduce the error in the transmitted signal. So far the performance of the algorithm equalizer with ZF and MMSE criteria both in the case without noise, a comparison of performance of the LMS and RLS algorithm.

Keywords : adaptive filtering second equalizer, LMS, RLS Bran A, Proakis (B) MMSE, ZF

Conference Title : ICSPCN 2015 : International Conference on Signal Processing, Communications and Networking

Conference Location : Paris, France

Conference Dates : June 25-26, 2015