Abstract

An improved method for estimating the frame/symbol timing offset in preamble-aided OFDM systems is presented. It uses a conventional preamble structure and combines autocorrelation techniques with restricted crosscorrelation to achieve a near-ideal timing performance without significant increase in complexity. Computer simulations show that the method is robust in both
Improved Preamble-Aided Timing Estimation for OFDM Systems

AWGN and fading multipath channels, achieving better performance than the existing methods.

Reference


Index Terms

Computer Science Information Technology

Key words

Autocorrelation
Improved Preamble-Aided Timing Estimation for OFDM Systems

OFDM

preamble

timing synchronization

cross-correlation