Abstract

In this paper, we propose an efficient scheme to reduce the peak-to-average power ratio (PAPR) in orthogonal frequency division multiplexing (OFDM) systems by using the standard arrays of linear block codes (LBC). Our scheme may be regarded as a modified version of the selective mapping (SLM), which is a probabilistic method to reduce the PAPR by selecting a signal with minimum PAPR from several candidates as the transmit signal. We choose lowest PAPR in each coset of a linear block codes as its coset leader from several transmitted signal. The paper also compared PAPR QPSK/DQPSK-OFDM with and without SLM.
References

- J. Bingham, "Multicarrier modulation for data: An idea whose time has come," IEEE Communications Mag., pp. 5-14, May 1990.

Index Terms

Computer Science, Emerging Trends in Technology

Keywords

Ofdm, Papr, Qpsk, Dqpsk, Qam, Lbc, Slm