Abstract

In this paper, the design and implementation of OFDM system along with Multi-Point Square Mapping combined with PTS (M-PTS) technique has received much attention in reducing the high peak to average power ratio (PAPR) of Orthogonal Frequency Division Multiplexing signals (OFDM). As compared to C-PTS technique, the proposed M-PTS technique needs not to submit side information but keeping almost the same performance of PAPR reduction as the C-PTS technique. A detailed Simulation of OFDM system is conducted and implemented using FPGA to validate the results.

References

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Reduction of PAPR using Modified PTS Technique Improvement: Simulation and Hardware Implementation

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Index Terms

Computer Science  
Signal Processing

Keywords

(MSM) Multi-point Square Mapping  
(OFDM) Orthogonal Frequency Division Multiplexing  
(M-PTS) Modified -PTS  
(PTS) Partial Transmit Sequence  
(C-PTS) Conventional PTS  
(PAPR) Peak to average power ratio
(FPGA) Field Programmable Gate Array.