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.

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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.