In this paper, we describe a performance comparison of inverted modulation techniques which are defined as Inverse Pulse Position Modulation (IPPM) and Inverted Manchester Code (IMC) schemes. For AWGN channel, we analyze the bit error rate performance of the techniques. According to simulation results, IMC scheme has better BER performance than that of I-PPM technique Moreover, IMC scheme is experimentally designed by using Field Programmable Gate Arrays (FPGA).

References


Index Terms

Computer Science  Circuits and Systems

Keywords

Inverse 4-Pulse Position Modulation (I-4PPM), Field Programmable Gate Arrays (FPGA), Inverted Manchester Code (IMC), wireless optical communication.