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# An alternative approach for binary to decimal conversion of frequency encoded optical data using MZI-SOA Switch

Subhendu Saha, Subhendu Biswas & Sourangshu Mukhopadhyay

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## Abstract

The conversion of binary data to its equivalent decimal counterpart and the vice-versa is very essential and necessary for all optical/electrical computing and data processing systems. In this paper, the authors propose a new scheme for the optical conversion of frequency encoded binary data to its equivalent frequency encoded decimal form based on the optical tree architecture. This is completely associated with frequency encoding technique because of its salient advantages. The scheme is implemented with all optical nonlinear switch like Mach–Zehnder interferometer-based