Abstract

In this paper, Optical Back Propagation and Levenberg Marquardt (LM) algorithms are used for Pattern Recognition. These two algorithms are compared with Classical Back Propagation algorithm with varying Learning rate and Momentum. The simulation results are obtained and are shown in different graphs. The corresponding simulation results show the efficiency of Levenberg Marquardt (LM) algorithms in comparison to Optical Back Propagation Algorithm and Back Propagation Algorithm.

Reference

- Mohammed A. Otair, Walid A. Salameh, Speeding Up Back-Propagation Neural
A Novel Approach for Pattern Recognition


**Index Terms**

Computer Science | Pattern Recognition

**Key words**

Back propagation | Optical back propagation | Learning rate
Momentum