Abstract

In this paper we present the implementation of Error Back Propagation Training Algorithm (EBPT) in VHSIC Hardware Descriptive Language (VHDL) platform for two standard benchmark problems of Nonlinear Classification of XOR function and Sine wave Generation. The effect of variation of learning parameters on accuracy of the output and speed of convergence of the algorithm are presented. Improved speed of convergence without much change in accuracy was obtained by incorporating Momentum method.

Refer
Performance Evaluation of Error Back Propagation Algorithm for Non-Linear Classification and Function Approximation in VHDL Platform

- Hripcsak, G. 1988 “Problem Solving Using Neural Networks,” San Diego, Calif.: SAIC Communications
Performance Evaluation of Error Back Propagation Algorithm for Non-Linear Classification and Function Approximation in VHDL Platform

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Index Terms

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Keywords

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