Altair | HyperWorks®

VisSim/Neural-Net™

Nonlinear Pattern Matching and System Identification Software

Key Highlights

- Back Propagation, Back Propagation with Momentum, General Regression, Probablistic, and Kohonen/LVQ learning
- Continuous and discrete outputs
- Interactive modification of training characteristics and learning rates
- Interactive monitoring of error rate
- Save and restore learned weights
- VisSim blocks for building and evaluating neural networks
- Accommodate sophisticated networks of multiple Neural-Net blocks (up to 32 layers per network; 32K neurons per layer; 128 networks per diagram)

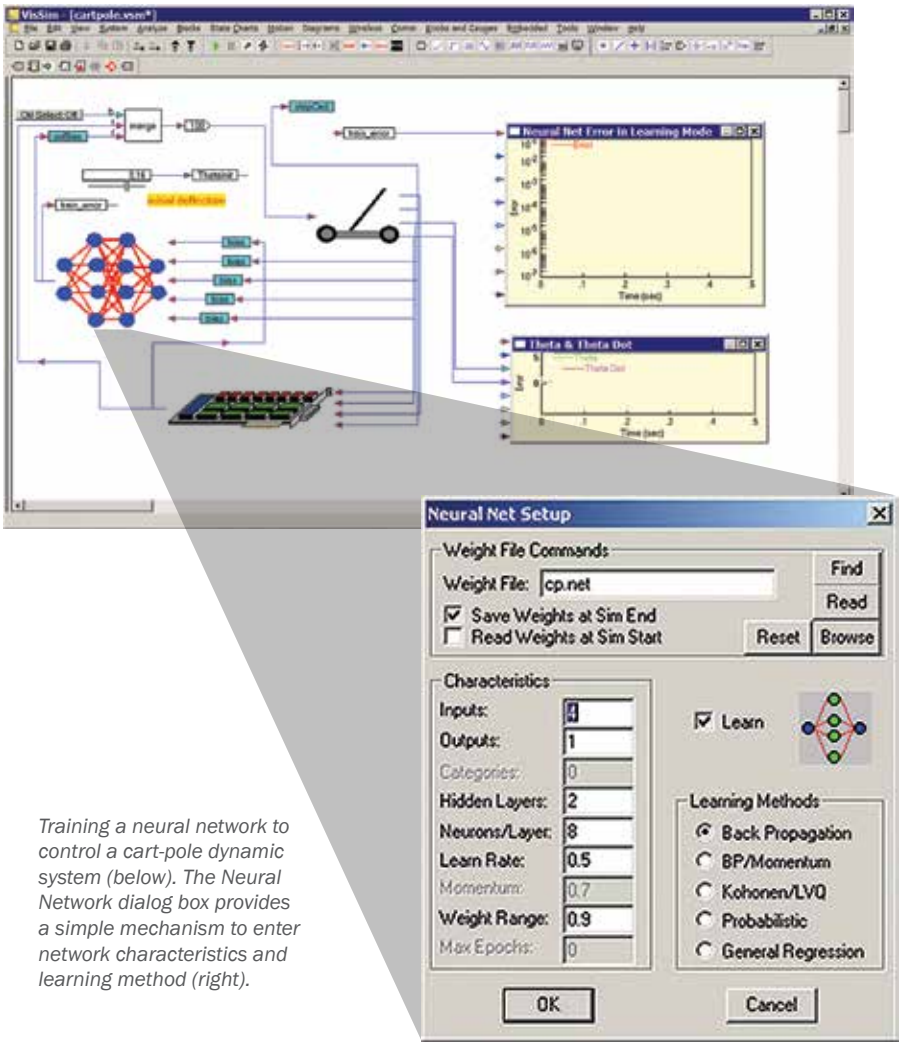
System Requirements

- Professional VisSim v9.0
- Windows XP, Vista, 7, or 8
- 128 MB RAM
- 125 MB hard disk space

Introduction

VisSim/Neural-Net excels at nonlinear system identification, problem diagnosis, decision making, prediction, and other problems where pattern recognition is important and precise computational answers are not readily available.

VisSim/Neural-Net is based on NeuroWindows® developed by the Ward Systems Group.



Training a neural network to control a cart-pole dynamic system (below). The Neural Network dialog box provides a simple mechanism to enter network characteristics and learning method (right).