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Artificial neural networks are nonlinear mapping systems whose structure is loosely based on principles observed in the nervous systems of humans and animals. The basic idea is that massive systems of simple units linked together in appropriate ways can generate many complex and interesting behaviors.

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Artificial neural networks are nonlinear mapping systems whose structure is loosely based on principles observed in the nervous systems of humans and animals. The basic idea is that massive systems of simple units linked together in appropriate ways can generate many complex and interesting behaviors.

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## **Neural Smithing: Supervised Learning In Feedforward**

Reed, R.D., and Marks, R.J, II (1999), Neural Smithing: Supervised Learning in Feedforward Artificial Neural Networks, Cambridge, MA: The MIT Press, ISBN 0-262-18190-8. After you have read Smith (1993) or Weiss and Kulikowski (1991), Reed and Marks provide an excellent source of practical details for training MLPs.

## **Neural Smithing: Supervised Learning in Feedforward**

Very small learning rates tend to make learning very slow, however, so larger values are often used and the stochastic elements become important. Instead of following a smooth trajectory down the gradient, the weight vector tends to jitter around the  $E(w)$  surface, mostly moving downhill, but occasionally jumping uphill (figure 5.6).

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Page 241, Neural Smithing: Supervised Learning in Feedforward Artificial Neural Networks, 1999. We can address underfitting by increasing the capacity of the model. Capacity refers to the ability of a model to fit a variety of functions; more capacity, means that a model can fit more types of functions for mapping inputs to outputs.

## **Introduction to Regularization to Reduce Overfitting of**

using a machine learning algorithm known as a convolutional neural network (CNN) [5]. CNNs are well suited to a broad class of detectors used in HEP and particularly in high energy neutrino physics.

## **A Convolutional Neural Network Neutrino Event Classifier**

Supervised Learning. Training data includes both the input and the desired results. For some examples the correct results (targets) are known and are given in input to the model during the learning

process. The construction of a proper training, validation and test set (Bok) is crucial. These methods are usually fast and accurate.

### **Supervised and Unsupervised Learning**

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