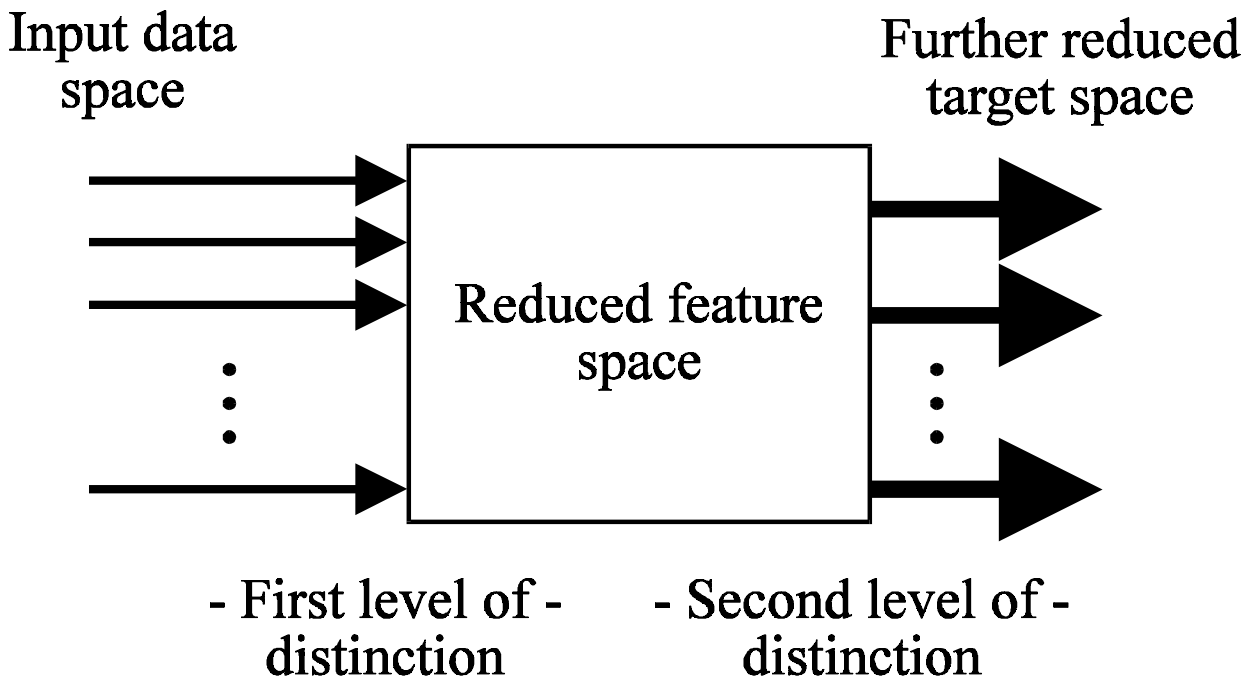


Figure 1 - Diagram of an associative memory which contains two levels of distinction

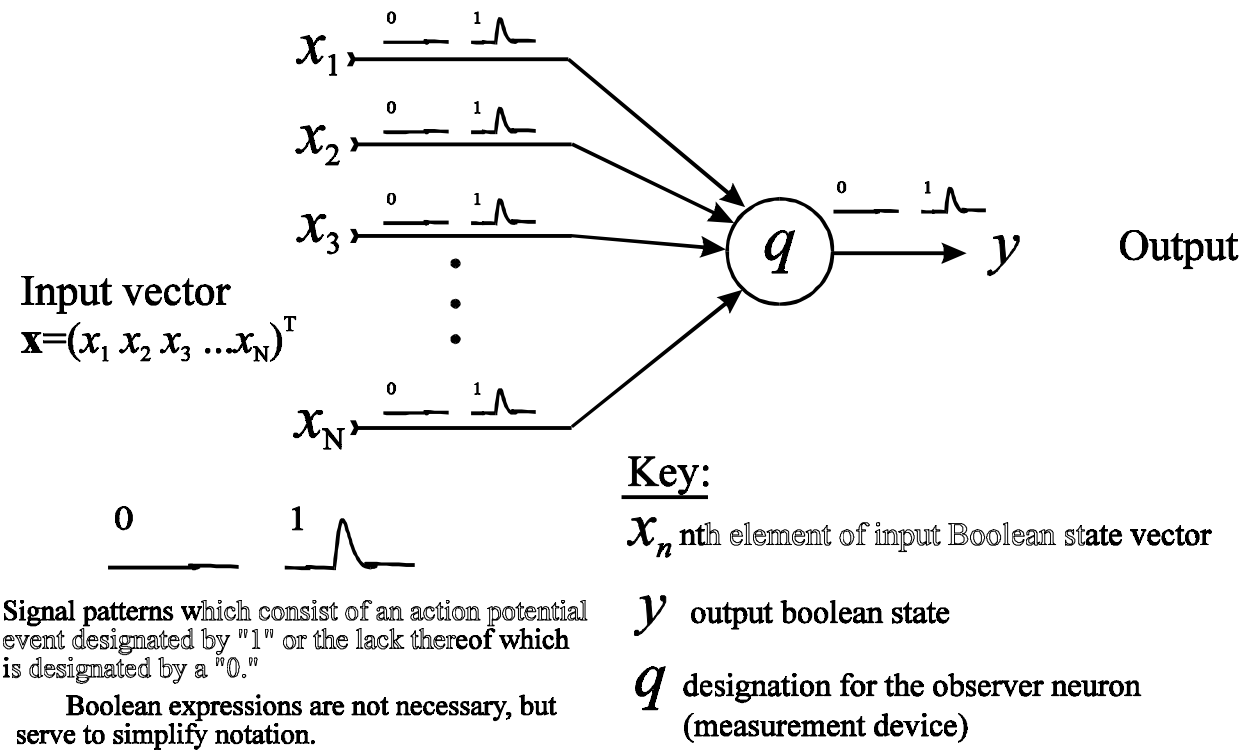


Figure 2 - Neuron measurement model

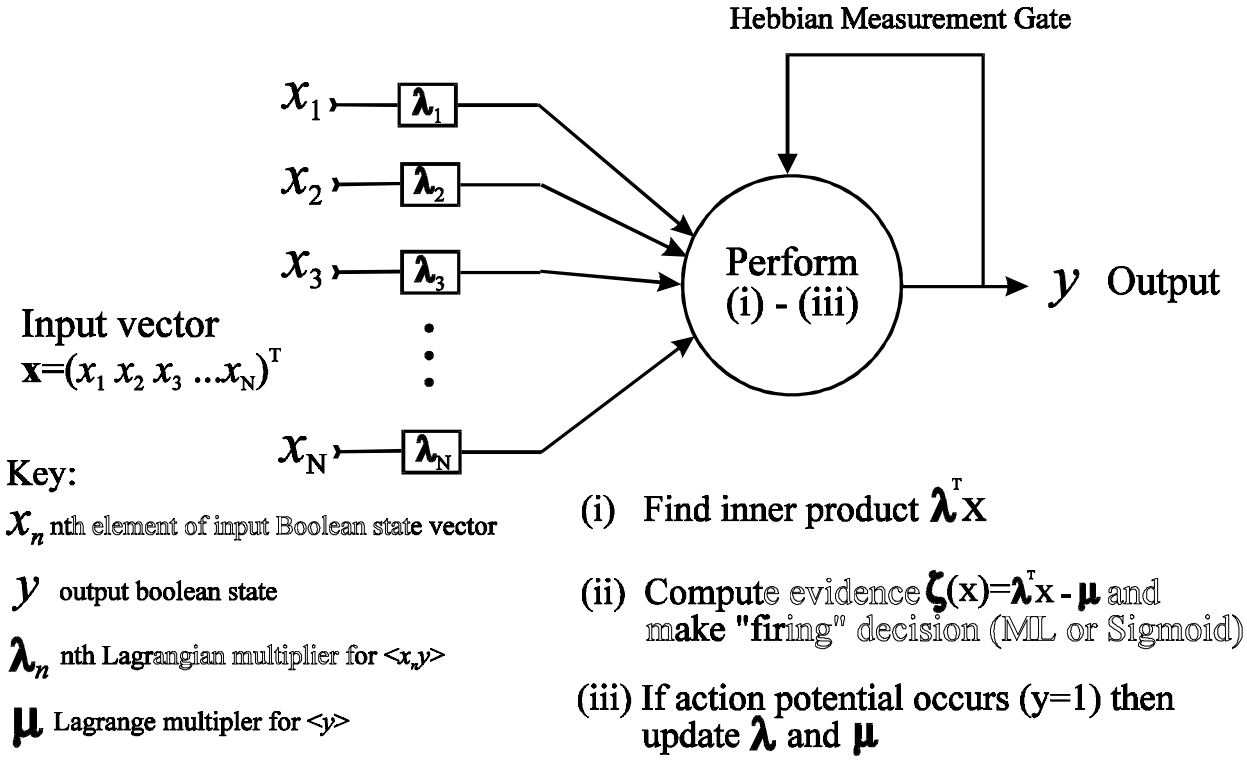


Figure 3 - Neuron model which maximizes the mutual information between input and output

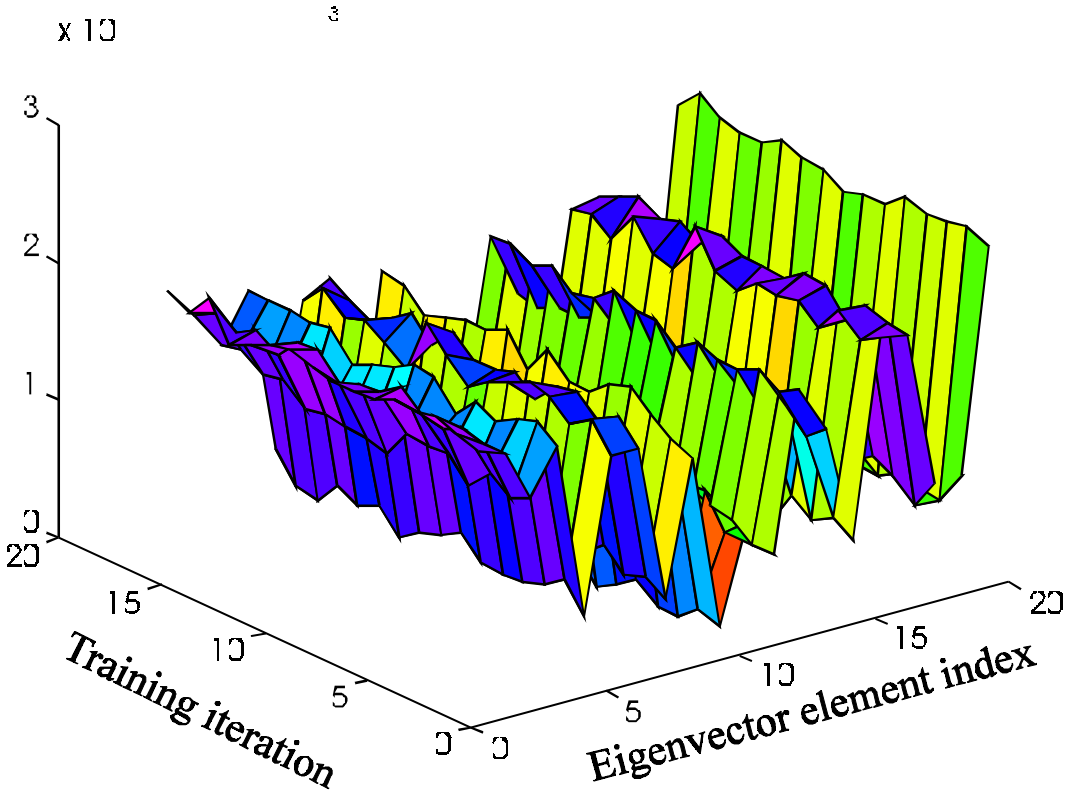


Figure 4 - Eigenvectors resulting from 16 training iterations with random initial conditions

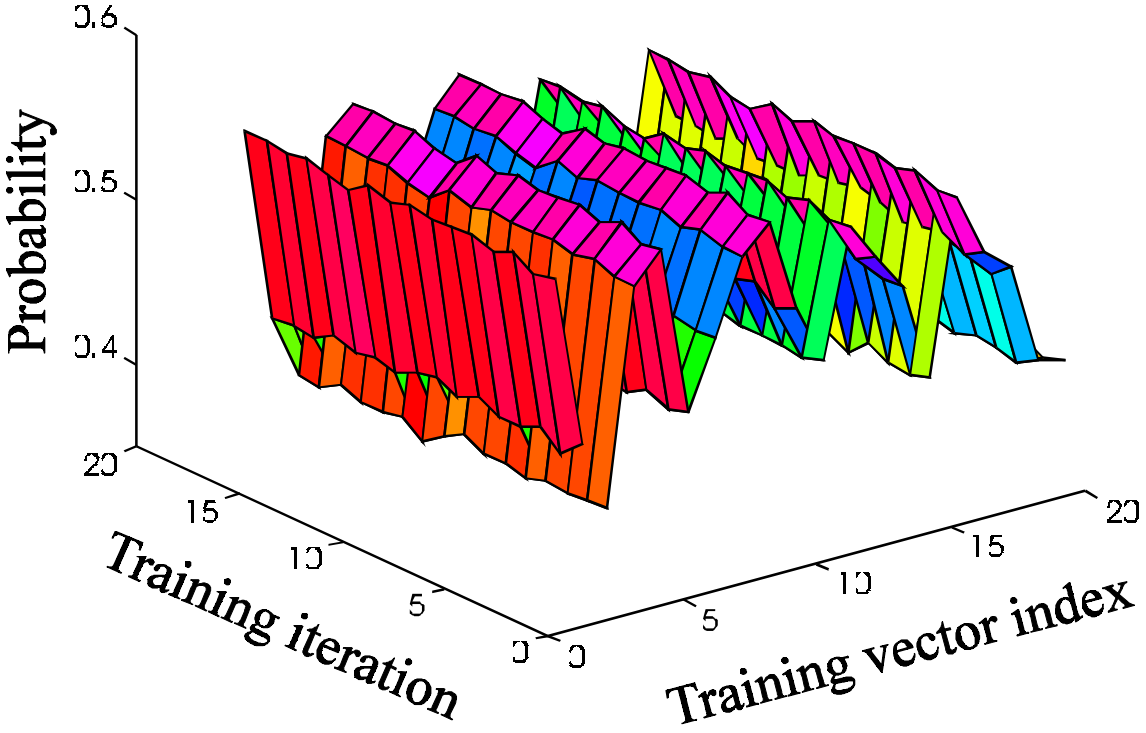
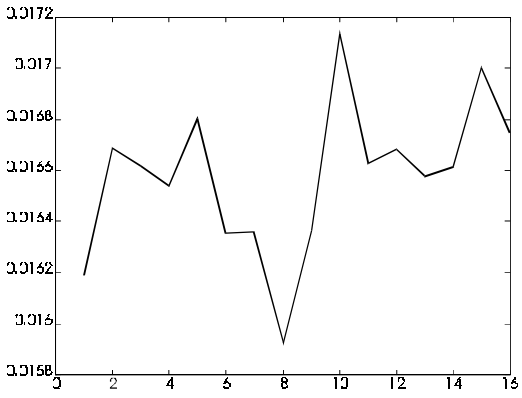
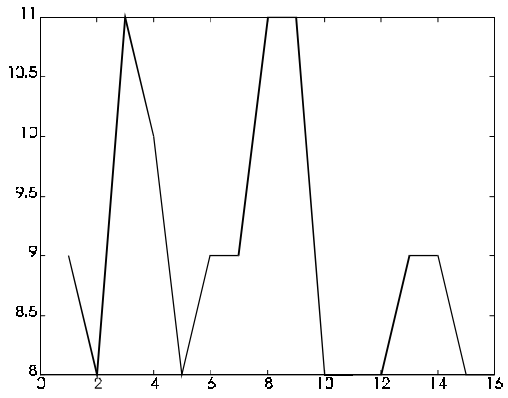


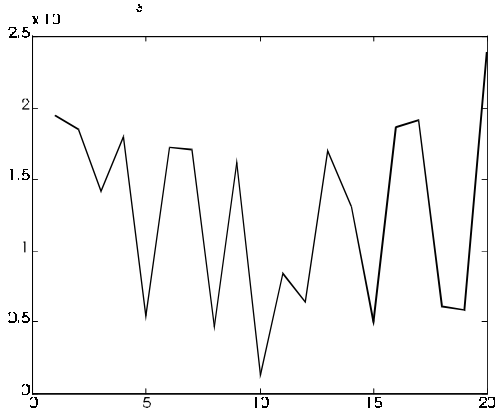
Figure 5 - Probability of action potential for each of 20 training vectors over 16 random trials. A high temperature value is assumed.



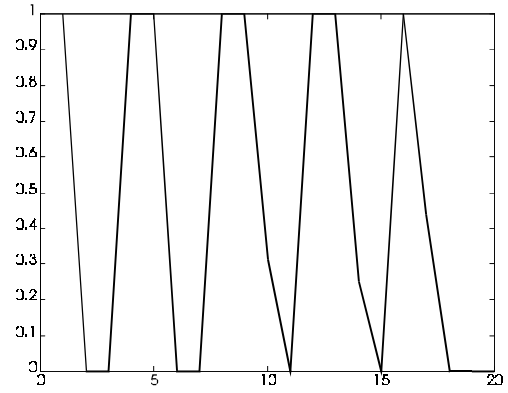
(a)



(b)



(c)



(d)

Figure 6a - Computed decision threshold over 16 random trials

Figure 6b - Number of input training vectors out of 20 distinguished by the neuron

Figure 6c - Averaged of computed eigenvectors over 16 random trials

Figure 6d - Averaged decision of a maximum likelihood decision rule over 16 random trials.