

Smoothing

Prediction

Information does not have to be available immedia-

Later data can have influence on previous date of the control of t

output should become closer to the desire error-correction step-by-step adjustment until stabl delta-rule / Wodrow-Hoff rul error signal directly measurab experiences are store desired response is scala Needs criterion to define the local neighborhood of a test vememory-basec Applies learning rule to training samples in local neighborho Euclidean distance can be used for local neighborho k-nearest neighbor is alternativ If two neurons are activated simultaneously their synapse should be incre-If two neurons are activated asynchronously their synapse should be decre-Hebbian These synapses are called Hebbian synap Anti-Hebbian: increase and decrease the other way aro Non-Hebbian, no increase or decrease dependent on activ Output neurons compete Only single output neuron is active at a tin Neurons which are same except for randomly distributed weig competitive Limit on strenght of neuron Winner-takes-all neuron is active for a set of inp Neurons become feature detectors for classes of input patti Stochastic learning algorithm derived from statistical mecha-Neural network design on basis of Boltzmann learning is called Boltzmann made Neurons are recurrent and binary (either on or Boltzmann Machine is characterized by energy function No self-feedback Flip random neurons with a certain probabil There are visible and hidden neuro Assign credit or blame for outcomes to each internal deci: Credit-assignment problen Assign to actions: temporal credit-assignment proble Assign to internal decisions: structural credit-assignment probl

e(n) = d(n) - y(n)