



Figure 8.14 Unsupervised learning in ART1

vigilance, ρ , beyond which a new exemplar is stored. As each new vector is presented, it is compared with all of the current exemplars in parallel. The number of exemplars grows as the network is used, i.e., the network learns new patterns. The operation of the ART1 network, which takes binary inputs, is summarized in Figure 8.14. ART2 is similar but takes continuously varying inputs.