Νευρο-Ασαφής Υπολογιστική
Neuro-Fuzzy Computing

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Practice on Radial Basis Function neural networks

Exercise-10

For an RBF network with one input and one neuron in the hidden layer, the initial weights and biases are chosen to be:

$w^1(0)= 0$ $b^1(0)= 1$ $w^2(0)= -2$ $b^2(0)= 1$

An input/target pair is given to be: {p=-1, t=1}

Perform one iteration of SDBP with α=1.

Exercise-11

The following figure illustrates a classification problem, where Class I vectors are represented by dark circles, and Class II vectors are represented by light circles. These categories are not linearly separable. Design a radial basis function network to correctly classify these categories.