Assignment 2 TBMI26

Linus Mellberg (linme560) Lukas Gillsjö (lukgi451)

February 16, 2013

1 Backpropagation Network

1.1 The Data Sets

Question 1 If the available data is split into training data and validation data, it is possible to validate the classifier. If all available data is used for training the classifier might be very good at exactly that data, but bad at classifying new data. The validation data makes it possible to test how the classifier performs on data it hasn't been trained on. The performance of the classifier on the validation data is likely to reflect how the classifier performs on new data.

Question 2 The first data set consist of two separated cluster and a linear classifier can probably be used. The second data set consist of a cluster of one class with the other class