1. Problem Statement

Two datasets a being classified, datasetA and datasetB, each containing 2 classes of 50 instances each, where each class refers to a type of iris plant. One class is linearly separable from the other two; whilst the other two are not linearly separable from each other.

The data base contains the following attributes:

1). sepal length in cm

2). sepal width in cm

3). petal length in cm

4). petal width in cm

5). class:

- Iris Setosa

- Iris Versicolour

- Iris Virginica

1. Aim

Purpose is to have a good understanding of perceptron algorithm and its limitations

1. Methodology

Implementing the perceptron learning algorithm to classifier the Iris dataset. The dataset has been separated into two different datasets, namely, dataset **A** and dataset **B.** Comparing the performance in terms of run-times and classification accuracy of the algorithm on both the datasets.

1. Analysis of Data

(See Analysis.xlsx)