



[Assignment]

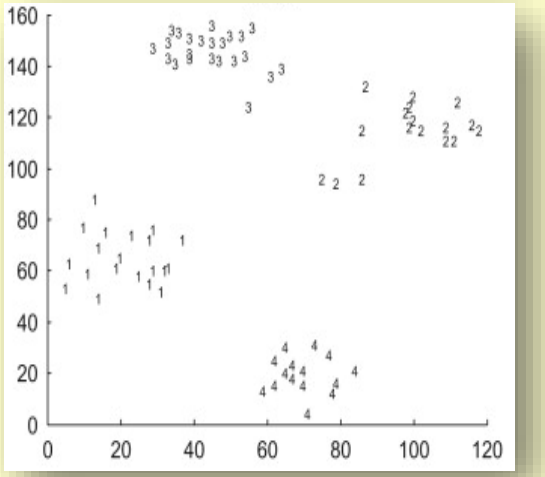
Introduction to Classification

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Assignment

- Case : Classification with Ruspini Dataset
- Represents a simple, well-known example that is commonly used as a benchmark problem in evaluating classification and clustering methods and is widely available, incorporated as a built-in data object in both R and S-plus statistics packages.
- Number of attributes : 2
- Number of data: 75
- Number of classes : 4
  - Class 1 → 20 data
  - Class 2 → 17 data
  - Class 3 → 23 data
  - Class 4 → 15 data



- Take 80% of first data from each class label as training data and use 20% of the rest data from each class as testing data
- Classify each testing data using 5-NN
- Compare the classification result to its original class label. If the comparison is not same, it means error. How many errors for classification of all testing data (in percentage)?
- Give your analysis from the experiment
- Prepare your report in ppt slides (and then convert to pdf), and Upload to ETHOL with the name NRP_firstname.pdf