Mannual Book

Every Datasets will be automatically run by selecting the Binary & Multi- classifiers in both KNN/CLASSIFIER & FITNESSFUNCTION FILES from different files.

Total 18 datastes.

Step:

1: Open Binary & Multi-classification file.

2: Open the Main.m file from the Algorithm file.

3: Open FitnessFunction.m and KNN&Classifier.m to select the classifier to use, comments include, only one Model each time.

4.In BinaryClass.m, change the title if needed.

(disp('Cope→’Algorithm’→’classifier’-->In Process-->Dataset 1->15 1/100');)

For used in FitnessFunction and KNN&CLASSIFIERS.m

Binary Code:

Model = fitcknn(xtrain,ytrain,'NumNeighbors',k); %KNN-1

%Model = fitcnb(xtrain,ytrain,'DistributionNames','kernel');%Navie Bayes-2

%Model = fitcensemble(xtrain,ytrain,'Method','AdaBoostM1');%Adaboost-3

%Model = fitctree(xtrain,ytrain);%Decision Tree-4

%Model = fitclinear(xtrain,ytrain);%Linear Classifier-5

%Model = fitcnet(xtrain,ytrain);%Artificial Neural Networks/Deep Learning-6

%Model = fitcsvm(xtrain,ytrain);%Support Vector Machine-7

%Model = fitclinear(xtrain,ytrain,'Learner','Logistic');%Logistic Regression-8

%tr=templateTree('MaxNumSplits',1);%bagging

%Model = fitcensemble(xtrain,ytrain,'Method','Bag','NumLearningCycles',30,'Learners',tr);%bagging

Multi Code:

Model = fitcknn(xtrain,ytrain,'NumNeighbors',k);%KNN

%Model = fitcnb(xtrain,ytrain,'DistributionNames','kernel')%NavieBayes

%Model = fitctree(xtrain,ytrain); %Decision Tree

%Model = fitcnet(xtrain,ytrain);% Artificial Neural Networks/Deep Learning

%Model = fitcecoc(xtrain,ytrain);%Support Vector Machine

%Model = fitcensemble(xtrain,ytrain,"Method","AdaBoostM2");

%t = templateLinear();%Multi-Linear

%Model = fitcecoc(xtrain,ytrain,'Learners',t);%Multi-Linear

%t = templateLinear('Learner','Logistic');%Multi-Logistic

%Model = fitcecoc(xtrain,ytrain,'Learners',t);%Multi-Logistic

%tr=templateTree('MaxNumSplits',1);%multi-bagging

%fitcensemble(xtrain,ytrain,'Method','Bag','NumLearningCycles',30,'Learners',tr);%Multi-Bagging