Indian Institute of Space Science and Technology

Thiruvananthapuram

Assignment #3

Due on 22-04-2015

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Assignment 3

Analyse of Ionosphere data using SMO

No. of data points :351
No. of items in positive class :225
No. of items in negative class :126
No. of misclassifications :88
accuracy :0.749
precision :0.719
recall/sensitivity :1.000
F-Measure :0.836
No. of support vectors:52
Bias:-6.111186
C=8

kernel used : gaussian(gama=0.7)

Cost function v/s iteration plot
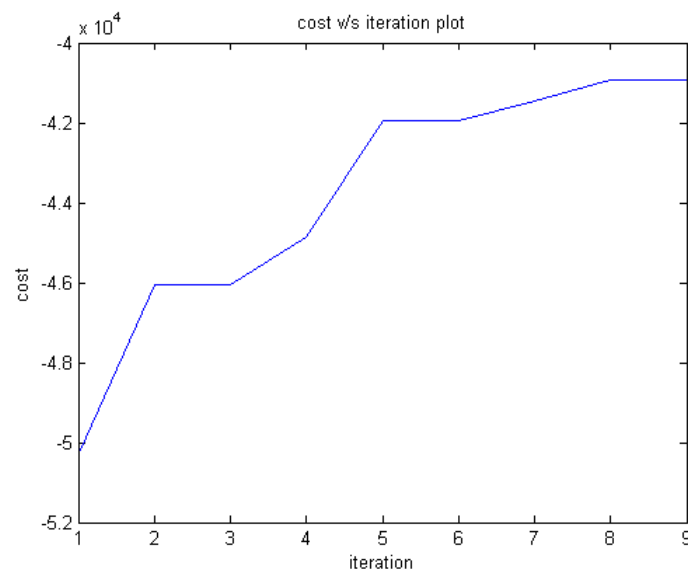
Fig.1 shows the variation of dual objective($W(\alpha)$) over iteration.

Figure 1: $W(\alpha)$ v/s iterations plot