## Assignment 3

CIS 410/510 Machine Learning, Winter 2009
due 11:59 pm, Feb 25th

1. Exercise 4.7 in the textbook.
2. Exercise 4.9 in the textbook.
3. Considering the positive and negative instances in 2.4 , please build a hyperplane to make them linearly separable in a different set of dimensions. Try to find the hyperplane with the maxim margin in a graph in new dimensions and circle the support vectors you think.
4. Exercise 6.2 in the textbook.
5. Exercise 6.3 in the textbook.
6. Exercise 6.6 in the textbook.

To turn in by paper version: Ask Cheri or Star to put your answers to Dejing Dou's mailbox or submit to him during the class or his office hour.

To turn in by emails: Send them to dou@cs.uoregon.edu. I prefer one pdf file. If you are using Word, you should be able to convert your word file to a pdf file.

To turn in by Blackboard: Upload your solution (i.e., one pdf file) to the Blackboard Assignment 3.

