Grading Criterion for Term Project Phase II
Artificial Intelligence
CS 470/670, Fall 2010

Student Name: _____ **TA: Siyi Liu**

Part 1: Experiment (0 to 200 pts)	Points

Programming Completeness
   1. **Supervised Learning:** Use an **informed search algorithm of your choice** to find the best feature subset out of the total 1089 features that can achieve the highest F1 score on test set TestSet3.csv using training set train.csv. **(0 to 100 pts)**
   2. Use Weka LibSVM to build a classifier from the training set and use the built classifier to classify the test set, using the feature subsets you have selected. **(80 pts)**
	1._____
	
	2._____
	
	3._____

Programming Documentation (0 to 20 pts) **1.** The submitted program is well-documented; variable and function names are self-descriptive and major functions are explained clearly in comments.	1._____
Part 2: Writing Assignment (0 to 100 pts)	

1. **Evaluation function of the informed search algorithm**. Discuss the heuristic function you have designed: is it admissible or consistent? Prove it. **(0 to 25 pts)**
   2. **Property of the informed search algorithm.** Is it complete? Is it optimal? What is the time complexity of the algorithm? What is the space complexity of the algorithm? Prove your conclusions. **(0 to 25 pts)**
   3. **Informed search algorithm**. Draw a flowchart of your informed search algorithm. **(0 to 25 pts)**
   4. Write an experiment report to discuss your experimental results, including detailed parameter settings and experimental results**. (0 to 25 pts)**
	1._____

Deductions:	

1. Unbounded homework, No cover page, No/Incomplete README (−5 pts/each)
     ◦ In the README file, specify your programming language and platform/OS you use for writing your assignment.
   2. Incorrect submitted file name (-5 pts)
   3. **No hard copies or soft copies (−100 pts)**
   4. **The submitted program is not written in supported languages (-100 pts)**
     ◦ **See http://www.cs.umb.edu/~ding/classes/470_670/student.htm for the list of supported languages**
	1._____
	
	2._____
	
	3._____
	
	4._____

Total Points (300 max):	————

Comment :