Final Project Specification

ECE 598 NA, Fall 2006

Issued November 9, 2006; Due December 11, 2006 by e-mail or mailbox

Your final project write-up for ECE 598 should include the following sections.

1. Motivation (at least half a page). Why is the problem important and/or interesting?

2. Background.
   (a) Problem statement. Describe the notation that you will use for this problem. Describe the measure of success, and list any constraints. Cite at least one paper to justify your notation, your optimality criterion, and your list of constraints.
   (b) Describe the solutions that have been proposed, for this or related problems, by at least four other authors. If any of these papers use different optimality criteria or constraints than the ones you have selected, please specify. Specify the aspects of previous solutions that you would like to retain (and why), and the aspects that you would like to replace (and why).
   (c) Describe the database(s) that you use for your computer exercises. For each database, cite either an article describing the database, or cite the database itself. A database citation is similar to a technical report citation: it should specify the authors of the database, the title of the database, the year, the institution, and the method of distribution (if internet distribution, specify URL).

3. Experiments.
   (a) Provide a list or tabular summary of the machine learning experiments that you have done this semester. For each, specify the database, the algorithm used, and (if applicable) the resulting error rate.
   (b) Run at least one more machine learning experiment. This may be any computer exercise from any chapter of DHS, or it may be a machine learning algorithm of your own selection. Motivate your choice of algorithm.

4. Conclusions: What works well, and why?