

**CS 140 Logic Programming
Fall 2006
Machine Assignment #6
Due Monday, November 13**

Choosing a theme for a project and developing a web page.

First, choose a topic that interest you very much or that you believe it will be useful in obtaining a job in an area that you enjoy working on.

It is important that your project be in a recent area of computer science, and that you try to explore some new aspects that have not been considered in the related latest papers.

Do some Google search using the keys:

XXXX YYYY Prolog

Where XXXX and YYYY are words closely related to the project you want to explore.

Examples of Google queries are:

- *Distributed computing Prolog*
- *Neural nets Prolog*
- *Genetic algorithms Prolog*
- *Semantic web Prolog*
- *Networks Prolog*
- *XXXX logic Prolog (where XXXX is modal, linear, temporal, fuzzy, etc)*
- *Sensors Prolog*
- *Time series Prolog*
- *Pi calculus Prolog*
- *Bayesian nets Prolog*
- *Random algorithms Prolog*
- *Robotics Prolog*
- *Simulation languages Prolog*

The above are just examples; use your imagination to zero-in on a topic of interest.

Then, do the following:

- **Choose some of the Google responses by the relatedness of the proposed URLs to your desired project.**
- **Select 3 or 4 references that are closely related to your chosen topic; make sure that these references are recent (say later than 1995, preferably in the years 200i).**
- **Read carefully the *abstracts* of the selected references and explore some of the items in the *bibliography*. At this stage it is not necessary to explore in detail the minutiae of the papers you have chosen.**
- **Develop a web site in which you will present:**
 1. **the topic you have selected,**
 2. **the references you have chosen, with their URL's,**
 3. **some examples of the problems that have been solved (you may use cut and paste),**
 4. **what you plan to do,**
 5. **send the URL of your web site to jc@cs.brandeis.edu**

I will respond to you as soon as possible as to the appropriateness of your topic. I may also suggest that you revise your goals and propose alternate directions.

Keep in mind that in developing your final program I do not expect you to implement long programs from scratch. You are encouraged to use any programs available in WWW (e.g., Graphviz); nevertheless, your project will be judged by your inventiveness in blending a pertinent problem that is worthwhile solving with the material that is already available.

Final presentations of projects.

There are about 20 students in the course and each CS140 lecture lasts for about 90 minutes. Each presentation will take 10 minutes and 2 minutes will be devoted to questions. We will accommodate 6 to 7 students per lecture on three days: Nov 27, Nov 29, and Dec 4. We will determine in class the schedule for the presentations.

The criteria for grading the projects will be:

- 1. Clarity of the presentation (oral and web site) 30%**
- 2. Depth of investigation of the selected topic 60%**
- 3. Your view of the important future work that is worth investigating 10%**