CS-4701 Practicum in Artificial Intelligence Fall 2015
Project Proposals

Due Date: Friday, October 16, 10pm via CMS.

Format: The proposal write up should contain six components:

1. Title of your project [without title the proposal is incomplete].
2. Names with Cornell netids of team members. Two team members max!
3. A clear and concise description of what you plan to do.
4. The general approach you'll use (e.g., heuristic search, game tree search, learning, inference rules, or neural networks).
5. An explicit, coherent plan for a quantitative and/or qualitative evaluation of your approach and system.
6. A timeline for your implementation and evaluation.

The proposal should not be more than about two pages in length. Teams can have a max of 2 members.

Proposals will be graded Satisfactory/Unsatisfactory based on the clarity and scope of the above components.

Proposals can be modified for content in response to my comments/suggestions.

NOTE:

1. Email me at selman@cs.cornell.edu if you'd like some feedback on early ideas or are looking for team members. Use as Subject: CS-4701 [text]
   Note that without CS-4701 in the Subject line your email may be missed.
2. For projects ideas, see the CS-4701 webpage. Check R&N for chapters related to your project.
3. For the final evaluation, I will have a brief meeting with each group. You will need to present your project with a powerpoint (about 10 to 15 slides) and a brief demo of your software. So, it is important to include a good graphical interface for the demo (if applicable). You will also need to hand in a write-up on the project (between 10 and 20 pages). The write-up should include a clear description of the overall goals of the project, the software written, and the results an evaluation of your system with various observations on the AI components and their performance. For the latter aspect, you should think about ways to study your system. For example, in a project on game playing, you should have your program play itself or variations of itself. You can evaluate how well various heuristics perform and the effect of increasing search depth. In a learning related project, you can consider the effect of training data size and the complexity of the learned concept or neural net. Don’t hesitate to drop me an email if you have questions about these issues.