CAP 6671: Agent Competition

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Please submit this homework in person directly to me in class on Feb 26th; if you are a remote student please submit it via email to **gitars@eecs.ucf.edu**. This writeup should be completed without assistance and be between 4-6 pages. Please correctly cite any sources that you use. This assignment is graded on a 15 point scale, with 5 pts of extra credit available for the implementation.

In the assignment, you will be designing an agent to compete in one of the autonomous agent competitions. If you select a diferent competition than one of the ones we discussed in class, please send me email with the reference to the competition to get approval before you start on your project.

Your writeup will be evaluated on: 1) writeup quality and clarity 2) novelty of research idea 3) completeness of reference 4) substance of implementation (optional).

Your writeup should contain the following sections:

- Summary of the competition rules, highlighting the most relevant aspects to your agent design.

- Related work section describing other winning strategies that people have used in the competition.

- Description of your approach along with some type of schematic showing how the different parts of your agent work together.

- An in-depth description of one part of your method. For example, if you choose to implement a trading agent, you could discuss your bidding method. Even if you decide to use a heuristic or ad-hoc approach, discuss how you could use AI techniques such as planning or machine learning.

- (optional) Implement your agent or some part of your agent. Submit documented source code and output from your agent. Please cite any code that you acquire from other sources (e.g. the competition web site).