CAP6675 : Final Project

Due Dates:
October 9, 2012 (Progress Report and Presentation)
November 15, 2012 (Final Report)
November 15/20/27/29, December 6 2012
(Presentation)

Ivan I. Garibay

1 Objective

The primary goal of this assignment is to successfully carry out a student-selected research project in complex adaptive systems. The project involves proposing, implementing, writing-up as a paper, and presenting to the class your work.

2 Preliminaries

Throughout the class you will work on a final research project. Before the middle of the course each student proposes an individual project. The proposed ideas are discussed in one or more individual meetings and one particular project is agreed upon between the instructor and the student. During the second half of the course, the student carries out the agreed project. The student writes up his/her work in a 8 to 10 pages paper in the style of a conference paper. For instance you can use ACM proceedings format:
http://www.acm.org/sigs/publications/proceedings-templates
Towards the end of the semester all students will be ask to present their project to the class. The project due date, students must bring three extra copies of their project to be distributed to other three students to be anonymously peer reviewed. The last day of classes all students must bring their written reviews. Your final project grade will be partially based on the peer reviews of your work and the reviews that you write about other students projects. All projects will be compiled into a class book and published as a Complex Adaptive Systems Laboratory (CASL) Technical Report and also in the class

website. Copies of this book will be distributed to all students. This final research project is worth 40

3 Project Milestones

3.1 Topic Selection

The topic of your final project is student-selected. In the next two weeks schedule one or more individual meetings via Kathy.adams@ucf.edu to discuss proposed ideas and agree on a project.

3.2 Progress Report and Presentation

You are expected to submit a report and present your progress to the class. You will have 15 minutes to present (15 slides maximum). The report and presentation should answer the following questions:

1. Who is working on the project team? (maximum 2 people)
2. What is the goal of your project? What question are you asking or studying with your project?
3. What are the critical papers your have identified for your research: same or similar goal and/or hypothesis? and/or What previous research papers you are identified as a foundation for your project? (i.e. you plan to used their methodology or build on their results)
4. Why is this an interesting hypothesis or question to ask?
5. How do you plan to research this question? What is your experimental plan? Be specific.
6. What results do you expect to see? (What is your hypothesis?)
7. What is your expected contribution?
8. How far along are you on your experimental design and coding? Any preliminary results to report?
9. Timeline

3.3 Final Project Write-up and Presentation

This is the final project presentation. You will have 15 minutes to present your research project results.

4 Timeline

- October 9, 2012: Progress Report and Presentation
- November 15, 2012: Final Report
- November 15/20/27/29, December 6, 2012: Presentation

5 Deliverables

- write-up describing your project in a conference style format (4 hard copies and a pdf file).
- all code you write for the project
- presentations: progress update (15 minutes), and final (25 minutes).

6 Evaluation

Your grade will be determined by your write-up and presentations. Also, it will be partially due to the feedback from your peers (other students). The questions below are typical for a peer-reviewed conference. You will use the same guidelines to evaluate the final project of your peers.

1. GOALS AND CONTRIBUTIONS
- Are the research goals and contributions of this work clearly stated?
- Do the contributions meet the goals?
- How important are the contributions of this paper?

2. PRESENTATION
- Is the paper well organized and well written?
- Does it use standard terminology?

- Does the paper describe problems and solution methods in sufficient detail for readers to replicate the work?
- Are there sections of the paper that need further elaboration or sections that can be reduced?

3. EVALUATION
- Is the approach evaluated carefully enough?
- Does the paper include systematic experiments, a careful theoretical analysis, or give evidence of generality?
- If the experiments are not adequate for supporting the claims, what additional experiments do you suggest be added to meet the goals?

4. REFERENCES
- Does the paper discuss relevant earlier work, noting similarities, differences and progress?
- Does it give proper credit to other contributions to the field?

5. DISCUSSION
- Does it discuss the limitations of the approach as well as its advantages?
- Does it consider the implication of the work and outline directions for future work?

6. GENERAL
- Does the paper make a significant, technically sound contribution to its field?
- Do you wish to nominate this manuscript for the best paper award?

7. RECOMMENDATION (please choose one)

( ) Accept
( ) Accept with minor revisions
( ) Accept with major revisions
( ) Reject and recommend full revision and resubmission
( ) Reject