CSCE 936: Cyber-Physical Systems Final Project

Assigned: 2019-09-05
Due: proposal - 2019–09-19 before class
draft of final paper - 2019-10-24 before class
presentation - last 4 classes of semester
final paper - 2019-12-16 at 15:30 (final exam time)

Project Overview

This is your opportunity to put into practice some of the many concepts we talk about in this class. The goal is for you to apply CPS techniques and research to your own research problems. Additionally, you will prepare a proposal, paper, and a presentation. This will prepare you to write papers, prepare proposals, and make presentations in the future, something that will likely be a part of your career.

Additionally, this is to be your OWN work. You may not work in teams or groups. However, you can certainly get advice, input, information, help, or anything else from any source you deem appropriate.

Grading

Here is the point breakdown:

100 points and 5% of final grade - proposal
100 points and 10% of final grade - presentation
100 points and 15% of final grade - draft of final report focusing on intro, background, etc.
100 points and 20% of final grade - final report

Total: 400 points and 50% of final grade

Proposal

Write a 1 page description (excluding citations) of your proposed project. Include major citations, the gist of your research problem, and some brief explanations about how you will apply CPS techniques to your problem. I want this to be a solid proposal, so don't turn in a first draft!

Presentation

23 minutes total:

- 20 minutes - presentation

- 3 minutes - questions (conference-style)

We will have presentations the last 4 days of class (depending on time). Rubric is posted on Canvas.

Paper

The paper should have the following specifications:

- 6 pages, excluding references

- Formatted according to whatever major society/organization/club/etc. you generally ascribe to. This could be IEEE, ACM, AIAA, ASM, etc.

- **At least 10 citations** to archived, peer-reviewed papers in your research area

I have provided a rubric, on Canvas, for how I will grade the paper.