Semester project

Note that there are two parts to this assignment. There is the final project proposal and the final project itself.

Project – Formulate a computational intelligence algorithm to solve an engineering problem: The final project should constitute an amount of work equivalent to writing a conference paper. Approximately midway through the semester you will be required to submit a one paragraph description of your intended project for instructor approval. Depending on your background develop an algorithm to solve an engineering problem. Students will be able to formulate their own projects, and depending on the nature of the project, they can work in groups. If you do choose to work in a group the expected deliverables should be equivalent to a contribution from each member similar to that of an individual project.

The final project proposal is worth 10%, but only requires a description of the project and a brief (1 paragraph) justification of why you believe this will be a successful project.

There are two approaches for the final project:

1. Code: create code that implements a computational intelligence method or,
2. Survey: do a survey of research papers.

<u>What you will need to turn in for the final deliverable (Due Monday of finals week)</u>
A written report in .doc, .docx, or .pdf format emailed to me by 8AM of the morning following the due date (Tuesday, December 8th). For those doing a research paper survey, this should cover at least five papers that have a common theme. The more successful papers will make conclusions from the information in the papers that was not already made in any individual paper. For those who are providing code, this should be a full description of your model/code presented in your final presentation. It

should be of sufficient detail to allow another graduate student to recreate your model/analysis/simulation, and have sufficient content to cover 12-15 double spaced pages of work. The code must be ready to be compiled (provide any necessary APIs and/or libraries) and accompanied by written documentation of the code in a format similar to the written report. This should include what it accomplishes, how it does so, and any observations regarding the development and deployment.