Project Descriptions

Multiagent Robotic Systems (Fall 2022)

Purpose

- Go beyond the class topics.
- Extend/complement the learning process.
- Showcase/apply some of the skills/tools learned so far to other problems and scenarios.
- Learn and enjoy new things

Mode

- A group of two students.
- A lot of flexibility this time. You can do several things ...
- Examples:
 - Present an interesting paper/result (related to class)
 - Showcase an *elaborate simulation environment* for some of the problems discussed in the class. Combine two controllers. Define a complicated task and solution
 - Implement controllers on the Robotarium.
 - Discuss some practical aspects of the controller implementation
 - Present an extension/new problem with some preliminary solution ideas.
 - Apply some of the tools learned to a different problem.
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Final Product

- A 15 20 minutes in-class presentation.
- In a very special case (discussed a priori with me) a write-up/paper could be accepted.
- Presentation Details
 - The purpose of presentations is not to tick mark a formality.
 - The goal Is to take it as an opportunity for the presenter and audience to learn some more and share interesting ideas and have good feedback.
 - (I am keeping it low-stress to maximize learning opportunities)

Grading

- A (15 20) minutes in-class presentation
- Total points are 15.
 - <u>10 points</u> will be graded by your peers (anonymously)
 - 5 points by the instructor (based on the presentation you will send)
 Quality of your presentation (in terms of the content and how much of a good learning activity is it for all of us.)
 - Send me slides <u>after</u> your presentation <u>summarizing</u> your topic/result/ideas/simulations and feedback from peers.
 - At most 5 slides....

Next

- Finalize your group members and topic (at least roughly) and put it on the Google spreadsheet I have created below
- Please do this ASAP (by the end of the week).

https://docs.google.com/spreadsheets/d/1qp9xfyfoOf1sXtgn1x62KocaNoPmQDnORlzPCcHFRT8/edit?usp=sharing

Some interesting papers ...

(See the Project folder at the elearning website ...)

Roadmap for the rest of the semester

