Assignments (/assignment/) / Final Project

Home (/assignment/final/)

Problem (/assignment/final/problem/)

Actions

Final Project

Problem

Correlated Q-Learning

As you encountered in the first project, replication of previously published results can be an interesting and challenging task. You learned that researchers often leave out important details that cause you to perform extra experimentation to produce the right results.

For this project, you will be reading "Correlated Q-Learning" by Amy Greenwald and Keith Hall (https://www.aaai.org/Papers/ICML/2003/ICML03-034.pdf). You are then asked to replicate the results found in Figure 3(parts a-d). You can use any programming language and libraries you choose.

You will present your work via a short **(at most 3 minutes) video presentation** and a **2-to-3-page written report(title pages count)**. The report/presentation should include a description of the experiment replicated, how the experiment was implemented, and the outcome of the experiment. You should describe how well the results match the results given in the paper as well as significant differences. Also describe any pitfalls you ran into while trying to replicate the experiment from the paper (e.g. unclear parameters, contradictory descriptions of the procedure to follow, results that differ wildly from the published results). What steps did you take to overcome those pitfalls? What assumptions did you make? Why are these assumptions justified?

Grades will be based on the fidelity of the replication, how well you show you understand the original paper, the quality of your presentation, and your written report.

You will submit your report through T-Square. Only your paper and presentation need to be submitted. Videos can be submitted through T-Square or as a link to a unlisted youtube video.

How to make video presentations?
Do what you think is the simple. For example, Keynote allows you to record audio over your presentations.

- Make a slide set.
- Start a screen recorder and record your voice while you present.

Some students might want to use a handy cam. That's fine too. Just let us see your slides properly.

Submit the report, slides and the video to T-square.