4511W, Fall-2018
WRITING ASSIGNMENT 1 :
Assigned: 09/19/18 Due: 09/26/18 at 11:00 PM (submit via moodle) <u>Submit only a pdf</u>

Written

For this assignment you are asked to read the following paper describing a modification of the A* search algorithm we discussed in class:

http://www-users.cselabs.umn.edu/classes/Fall-2018/csci4511/assignments/ICAART18.pdf

Write an approximate 2 page summary and analysis of the paper. You **must** answer the first set of three questions as part of your analysis. I then provide some ideas on other ways to analyze the paper. These later questions are just suggestions and you do not need to answer any if you do not wish to. You may analyze the paper in whatever manner you find interesting, but you must demonstrate significant critical thinking.

Answer the following questions and provide justification:
* The authors claim this algorithm is useful in "dynamic terrain". What is a specific examples of a "dynamic terrain" where this algorithm would be useful?
* What is an example of a "dynamic terrain" where the proposed algorithm might not be useful?
* Does the proposed algorithm always outperform the other "state-of-the-art" algorithms?

Some suggestions on what to summarize/analyze:
* What is the problem setting that they are solving for?
* What assumptions do they make about the environment or agent?
* What novel contribution does this paper provide?
* How does this paper relate to other people's work
* Are there any drawbacks to the approach?
* How do they justify that this is a good approach?
* Is the justification sufficient?
* What other areas could use justification?
* Is their procedure clear? Could you implement their algorithm?
* Is the paper clear and concise?

When answering the above questions, you should avoid quoting the author's of the paper (i.e. use your own words). If you are going to quote anything specific, make sure you cite the source (i.e. the authors). You should refrain from simply rephrasing what the authors said.

The writing must be done in LaTeX and the resulting pdf submitted. ShareLatex is a website that allows you to write a "tex" file and view the resulting pdf in a web-browser. This eliminates the need to download Latex (though it is on the CSE labs machines), but requires you to register (personal accounts are free).

https://www.sharelatex.com

A sample LaTeX file is provided here (and resulting pdf):

http://www-users.cselabs.umn.edu/classes/Fall-2018/csci4511/assignments/sample.tex
http://www-users.cselabs.umn.edu/classes/Fall-2018/csci4511/assignments/sample.pdf

For a tutorial on LaTeX, try google or here:

http://www-users.cselabs.umn.edu/classes/Fall-2018/csci4511/misc/4511LatexGuide.html

Grading:
    20% Succinct summary
    20% Depth of analysis for required questions answered
    20% Depth of other analysis
    20% Writing clarity
    20% For using latex