UDACITY

PROJECT

Implement a Planning Search

A part of the Artificial Intelligence Program

PROJECT REVIEW

CODE REVIEW 3

NOTES

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Meets Specifications

Brilliant Learner,
The project and report show diligence and effort. I will like to personally applaud the good work and wish you good luck in the Udacity AI courses ahead.

Recommendations.

Here are some links to very good materials that I believe will help increase the student's knowledge on Planning Search.

- This link gives an insight into what is **Automated Planning and Scheduling.**
- This link will enhance your understanding of **State Space Planning.**

Planning Problem Representation

The problems and class methods in the `my_air_cargo_problems.py` module are correctly represented.

Correct!

An optimal sequence of actions is identified for each problem in the written report.

Excellent work!
The report identifies multiple optimal solutions for each problem.

Automated Heuristics

Automated heuristics "ignore-preconditions" and "level-sum" (planning graph) are correctly implemented.

Correct!

Performance Comparison

At least three uninformed planning algorithms (including breadth- and depth-first search) are compared on all three problems, and at least two automatic heuristics are used with A* search for planning on all three problems including "ignore-preconditions" and "level-sum" from the Planning Graph.

Good work.
The report compares more than three uninformed planning algorithms on all the problems.

It also includes automatic heuristics, thereby, meeting the specification of this rubric.

A brief report lists (using a table and any appropriate visualizations) and verbally describes the performance of the algorithms on the problems compared, including the optimality of the solutions, time elapsed, and the number of node expansions required.

Great job.
The report provides tables which show the performance of the algorithms with respect to optimality, time elapsed, and the number of node expansions.
The report also describes verbally, the performance of the algorithms.
The performance of the algorithms on the different problems is explicitly explained.

The report explains the reason for the observed results using at least one appropriate justification from the video lessons or from outside resources (e.g., Norvig and Russell's textbook).

The report explains the reasons for the observed results and uses appropriate justification. Nice work.

Recommendation.

I recommend that references be added at the end of the report document.

Research Review

The report includes a summary of at least three key developments in the field of AI planning and search.

Awesome write-up on some key developments in the field of AI planning and search such as languages and algorithms.

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3 CODE REVIEW COMMENTS ›

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