23/03/2018 Udacity Reviews



PROJECT

Implement a Planning Search

A part of the Artificial Intelligence Nanodegree and Specializations Program

PROJECT REVIEW	
CODE REVIEW	
NOTES	
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Meets Specifications	
Keep up with the good work. Excellent work with the heuristic analysis repor	
Planning Problem Representation	
The problems and class methods in the my air cargo problems.py modu	ile are correctly represented.
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```
air_cargo_p3 returns the correct goal fluents:

air_cargo_p3 returns an object of type problem:

air_cargo_p3 returns the correct initial values:

AirCargoProblem correctly lists possible actions in a given state:

AirCargoProblem correctly constructs all possible actions:

AirCargoProblem correctly updates state for a given action:

AirCargoProblem yields a correct solution when input to breadth_first:

. Test Passed F - Test Failed E - Error
```

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

By reading through the written report (heuristic_analysis.pdf), an optimal sequence of actions for problems 1,2 and 3 is clearly outlined. This conforms perfectly with the specifications requirements of this project rubric

Automated Heuristics

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

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 three uninformed planning algorithms on all the problems. It also includes automatic heuristics (ignore-preconditions and level-sum) 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.

The report provides tables which show the performance of the algorithms, well done.

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).

Good work summarizing the performance of the heuristics in the report

Research Review

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

Good

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