

CS 312: Artificial Intelligence Laboratory

Task 6: AO* Algorithm

Choose a domain and implement the AO* algorithm.

Note: You can use the domain of tasks 2 or 5, only if it compatible with AO* algorithm.

- 1) Consider two heuristic functions $h_1(x)$ and $h_2(x)$.
- 2) $h_1(x)$ should overestimate the cost of solving a node.
- 3) $h_2(x)$ should underestimate the cost of solving a node.
- 4) Compare and analyze the solutions found by $h_1(x)$ and $h_2(x)$.

Evaluation Criteria:

Heuristic Functions: 5

Correctness: 20

Report: 15

Code Quality: 5

~~Viva: 5~~

Deadline: 11:59 PM 9 March 2020

Late Submission Policy: 5% of marks will be deducted per day late.

For Reference :

AO* algorithm: <https://www.youtube.com/watch?v=6CoX9GmDRhU>

Report Format :

1. Brief description of the domain
2. Heuristic functions considered
3. AO* algorithm analysis and observation