Artificial Intelligence

BS (CS)_SUMMER_2024

Lab Task 06

Learning Objectives

1. Informed Searches
2. Greedy Search
3. A* Search

Lab Task 06

Informed Searches

A* Search

Question:

You are given a weighted graph. The numbers written on edges represent the distance between the nodes. And the numbers written on nodes represent the heuristic value. Find the most cost-effective path to reach from start state **A** to final state **J**. Implement the A* search algorithm on this graph.

10
A   3   6
                       F
6   1
            2   5 G   7
8 B   D 7
      3   1   3   1   H 3
         C   8   5   I   2
      5   5   3
            E
         3   5   J