

Systematic Search Testat

Implement the systematic search strategies in exercise jupyter notebook and answer the following questions:

1) Visualize which nodes (hubs) have been visited by the search algorithm. Create for each search strategy an image that shows the start, the goal, the solution path and all the visited nodes. [5 pt]

2) Answer the following questions for each algorithm and fill the summary table as shown in the jupyter notebook [10 pt]:

1. How does your algorithm deal with loops?
2. Can you make an estimate about the time and memory requirements?
3. Is your algorithm complete and optimal?

3) What is special about the sbb railway map in terms of complexity (branching factor, depth)? How could you preprocess the data set in order to reduce the search space? [5 pt]