

Artificial Intelligence 1

Quiz #4 (problem solving, informed search)

What is the difference between informed and uninformed search?

Is greedy best-first search a complete and sound algorithm?

What is the relation between admissible and consistent heuristics?

Why is a consistent heuristic also called monotonous?

Which property of heuristic guarantees optimality of graph-search? Prove it.

Which property of heuristic guarantees optimality of tree-search? Prove it.

What is the advantage and disadvantage of the IDA* algorithm?

What is advantage and disadvantage of recursive-best first search?

What is the common disadvantage of IDA* and RBFS?

What is an effective branching factor?

How can we compare efficiency of heuristics?

Is there a general method to obtain admissible heuristics?