

Lecture #1: Introduction

What is the major difference between planning and scheduling?

What are the core constraints in planning?

What are the core constraints in scheduling?

When is it appropriate to separate (decouple) planning and scheduling? When is it better to solve both tasks together?

What is the typical objective in planning?

What are typical objectives in scheduling?

Which search algorithm is appropriate to find the shortest plan?

Explain and compare BFS and DFS.

Describe algorithm A*.

What property of heuristic guarantees optimality of A*?

What is the result of AND-OR search algorithm? Compare it with the result of DFS.

Define a constraint satisfaction problem (CSP).

How is a CSP solved?

Compare MAC and DPLL.

What is a conjunctive normal form (CNF)? Can any proposition formula be expressed in CNF?