

L5-C1 Which algorithm?

You have to design a robot that transports parcels from one office to another in the same building. You need to compute its path from the parcel reception to the destination office, passing through some large rooms. You have all the plans, including the furniture which are in fixed positions. Of course you need to find the shortest path. Which path planner do you choose?

- A. Visibility graph on obstacles that are enlarged by half of the diameter of the robot and Dijkstra applied on the graph
- B. Dijkstra on a $0.1 \times 0.1 \text{m}^2$ four-connected occupancy grid
- C. A* also on a $0.1 \times 0.1 \text{m}^2$ four-connected occupancy grid