

Mobile Robots

AUTO4508

Lab Assignment 5 – *Group* – Brushfire

Points: 10

Implement the Brushfire algorithm for a given environment in occupancy grid format.



EXPERIMENT 1 (7 points)

Read and display the occupancy grid as a binary QVGA image file (1 means occupied, 0 means free).

Calculate the iterative Brushfire algorithm and print the resulting graph on screen.

EXPERIMENT 2 (3 points)

Drive the robot from start (top left) to goal (bottom right) on a collision free course, following the Brushfire route. You can use any path, not necessarily the shortest path, e.g. use 'Wandering Standpoint'.