

## Mandeep Singh

### Assignment 2

#### D STAR

- D star is almost similar to [\\*A star](#), as the name says its robust to dynamic appearing of obstacles.
- If after computing the path an obstacle occurs while traversing the path following will be done:
  - Update in\_valid list with new obstacles.
  - Remove all the obstacle cells from valid list.
  - Increase the total cost for all adjacent nodes where first obstacle was found.
  - Iteratively increase the total cost of all the cells which are children to the adjacent nodes.
  - Also make them available (by updating valid list) for reconsideration while comparing total costs.

