

Lecture-14

Program-2, Due March 29

- Implement Hough transform to fit straight lines to edge detected image.
 - Input is a pgm image
 - Apply edge detector to compute gradient magnitude and direction, and edge map
 - Display fitted lines
 - Use polar form of equation of line
 - (a) fit lines not using gradient direction
 - (b) fit lines using gradient direction
 - (c) fit lines using gradient direction and magnitude.
- Write a short report (1-2 pages):
 - Method used
 - Problems/difficulties
 - Analysis of results.
- Demonstrate your program in the vision lab (time to be fixed later) on un-seen images.