

System limitations:

- 1- Parking slot have to be marked by lines.
- 2- Lane detection and cropping won't work properly with white and yellow cars.
- 3- System is invalid at night.

System Testing

1. Testing Environment:

- Testing on 40 photos from different parking areas in faculty of engineering.

2. System accuracy:

- When parking slot is available- no obstacle: 40%
- When parking slot is not available- obstacle detected: 75%

3. Reasons for system fails:

- Not using a fixed photo size as a reference. This problem will be solved after using camera that takes equal resolution photos.
- White or yellow cars in the background.
- Parking lines are not clear on the ground or having a faded color.
- Further enhancement will be done on the line detection module.