

# Image Signal Processing

## Lab-2

### Occlusion detection

Given are two aerial images (IMG1.pgm, IMG2.pgm) of an airport parking bay. These images were captured using two cameras placed at different locations and at different instants of time but overlooking the same area. It is known that the images are related by an in-plane rotation and translation.

The following point correspondences are given:

Correspondence	IMG1 ( $x, y$ )	IMG2 ( $x, y$ )
1	(125, 30)	(249, 94)
2	(373, 158)	(400, 329)

Determine the changes in IMG2 with respect to IMG1.

NOTE : Co-ordinate convention followed to represent the above points,

1. Origin (1,1) at top left corner of the image
2.  $x$ -axis = along the columns of the image
3.  $y$ -axis = along the rows of the image