

SYDE 677 Computer Vision – Assignment #1 (Getting Comfortable with MatLab)

Due date: *September 25, 2006*

Instructor: Prof. H.R.Tizhoosh

1. Read “Lena” into variable I
2. Resize it to 256×256 if necessary
3. Write a MatLab function for the following procedure:
 - Generate two random numbers x and y between 5 and 251
 - Construct a white square of size 9×9 around I(x,y)
 - Display and save the modified Image

Deliverable: Matlab code plus one image sample

1. Read “Lena” into variable I
2. Resize it to 256×256 if necessary
3. Write a MatLab function for the following procedure:
 - Generate two random numbers x and y between 8 and 248
 - Invert all pixels of a 15×15 window around I(x,y)
 - Set all pixels around the inverted area to 255
 - Display and save the modified Image

Deliverable: Matlab code plus one image sample