

Assignment 1

Deadline: September 28, 2015

- a) What is an image? Explain different steps involved in image processing?
- b) What are the application of Image processing? Discuss in brief.
- c) What do you mean by spatial resolution and intensity level resolution? What is the importance of these two terms in quality of image?
- d) Explain the effect of reducing spatial resolution and intensity level resolution?
- e) What do you mean by sampling and quantization? What happens if samples are increased and vice-versa?
- f) What if quantization levels are increased? Relate it with quality of image.

Assignment 2

Deadline: September 30, 2015

- g) What do you mean by connectivity? Explain different type of connectivity with necessary examples and figures?
- h) What is levelling a pixel? How can an image can be labelled according to different connected basis? Explain with algorithm and example?
- i) What is distance between pixels? Explain different types of distance with their significance?
- j) What is point processing? Why we require point processing?
- k) Explain negative operation, log transformation and antilog transformation with suitable example.
- l) What is power law transformation? Explain gamma correction?
- m) What is thresholding? How intensity level transformation tends to thresholding?
- n) What is piecewise linear transformation? Explain?
- o) What do you mean by intensity level slicing? Explain Bit plane slicing along with significance of different bit plane.