

Digital Image Processing COL 783

Assignment 0: Image Scaling/Reduction: Zooming In/Out

This is a warm up assignment as discussed in the class. The basic intent of this assignment is to perform the scaling operation to an image. The scaling up should be done a) replication b) interpolation. The scaling down should be done with the corresponding operations as would be used for scaling up. For this assignment you may consider a monocolour (colorless) input image. Compare the quality of your implementation with the built-in function available in the library (e.g. MATLAB). The comparison may be done both visually and quantitatively using an error metric.

Note:

- Assignment can be done in a group of maximum size of two.
- For reading and writing images you may use built-in functions from MATLAB or any other library you use.
- This assignment will be checked at the time of the evaluation of Assignment 1.