**EE5356 Project 1**

**Zooming with interpolation**

**Apply the following 3 interpolators to a test image (8bpp 256 level gray scale)**

**to zoom it by 2.**

1. **Replication (See Figure 7.28 in the textbook pp.254)**
2. **Linear interpolator (See Figure 7.29 in the textbook pp.255)**
3. **Cubic spline interpolator (See Figure 7.30 in the textbook pp.255)**

**NOTE:**

**You may choose a test image from the UTA DIP website at**

**http://www.uta.edu/faculty/krrao/dip**

**or Dr.Rafael Gonzalez’s web site at**

**http://www.imageprocessingbook.com/downloads/book\_images\_**

**downloads.htm . (All the images are in jpeg format.)**

**Also, go to database in the class website.**

**References:**

1. **Textbook pp.253-255**
2. **Rafael C. Gonzalez and Richard E.Woods, “Digital image**

**processing”, Prentice Hall, III Edition, 2008.**

**3) Gonzalez, Woods and Eddins, "Digital Image Processing with MATLAB".**

**4) Practical image and video processing using MATLAB by Marques, Oge**