CS 6640 Fall 2012 Midterm: 10/17/2012, 1:25pm to 2.45pm

In principle, the midterm will cover all topics that were taught in class and assigned for readings before the Fall break.

This is a close-book exam, just pencil and paper. You can’t use any materials (no books, laptop, copies of slides and notes). The style of the exam is similar to the Quiz.

Topics to be covered:

Chapter 1: Introduction
Chapter 2: Fundamentals: All except 2.4.4. Image Interpolation and 2.6.5 Geometric spatial Transformations and image registration, and 2.6.7 Image Transforms.
Chapter 3: Image Enhancement in the Spatial Domain (all except Sharpening Spatial Filters)
  Gray levels, histograms, probabilities
  Use of histogram for segmentation by thresholding (slides and assignment 1)
  Spatial Filtering: Correlation/Convolution, Linear smoothing, Edge detection, Nonlinear smoothing filters.
  Canny edge and line detection
Chapter 4: Basics of Fourier Transform and Backtransform, excluding Fast Fourier Transform FFT.