

**Digital Image Processing
(ECE513)**

Computer Project 5: Data Compression and Encoding (Report Due May 9th, 2020)

The goal of this computer assignment is to apply different encoding methods covered in Lectures 26 and 27 to the transformed images in Computer Assignment 2.

1. **Encoding for DWT Transformed Images:** Devise a suitable encoding scheme for each thresholded added detail in the 2-D DWT decomposition. Assuming that the lowest order approximation image requires 8 bpp, provide the performance plot of the SNR of the reconstructed image as a function of bpp.
2. Provide a detailed discussion on the effectiveness of the encoding method considered here for image data compression in a report. **Please read the guidelines for preparing your report.**