ECE 493/593 Telehealthcare Engineering

Homework # 4 (Due: Nov 8, Thursday)

Q1. Explain how Wavelet overcomes the shortcomings of Short Time Fourier Transform (STFT).

Q2. Read the 70-page WORD document on Wavelet, and explain the differences between continuous wavelet and discrete wavelet transform (DWT).

Q3. Explain how the multiresolution analysis (from LPF and HPF viewpoint) can be used for DWT implementation.

Q4. Explain how Wavelet can be used to achieve image compression.

Q5. Explain the anti-noise principle in Lab 4 (Wavelet II).