

EE3731C

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File name	Section	What does it do?
Part1_abc.m	1. Image Denoising	- 3 figures will be displayed: original camera image, wavelet transform result (lines colormap), and reconstructed image.
Part1_defgh		- 8 figures: comparison between the noisy and denoised image with different $\sigma$ from 10 to 80, PSNR (dB) of each image are also included - Plot PSNR v.s. $\sigma$ for noisy and denoised image.
Part1_i.m		- Comparing the original and noisy image with $\sigma = 20$ - Denoised image using 3 schemes: hard-threshold, soft-threshold and ABE. You may want to stretch the window to see the title and PSNR.
Part2.m	2. Image Compression	- 4 figures: compressed images with different compression ratio: 20%, 10%, 5% and 1%. PSNR are included.
Part3.m	3. Signal Filtering	- ECG signal before and after filtering in time domain. - ECG spectrum before and after filtering. The spectrum is estimated using Welch's method.