

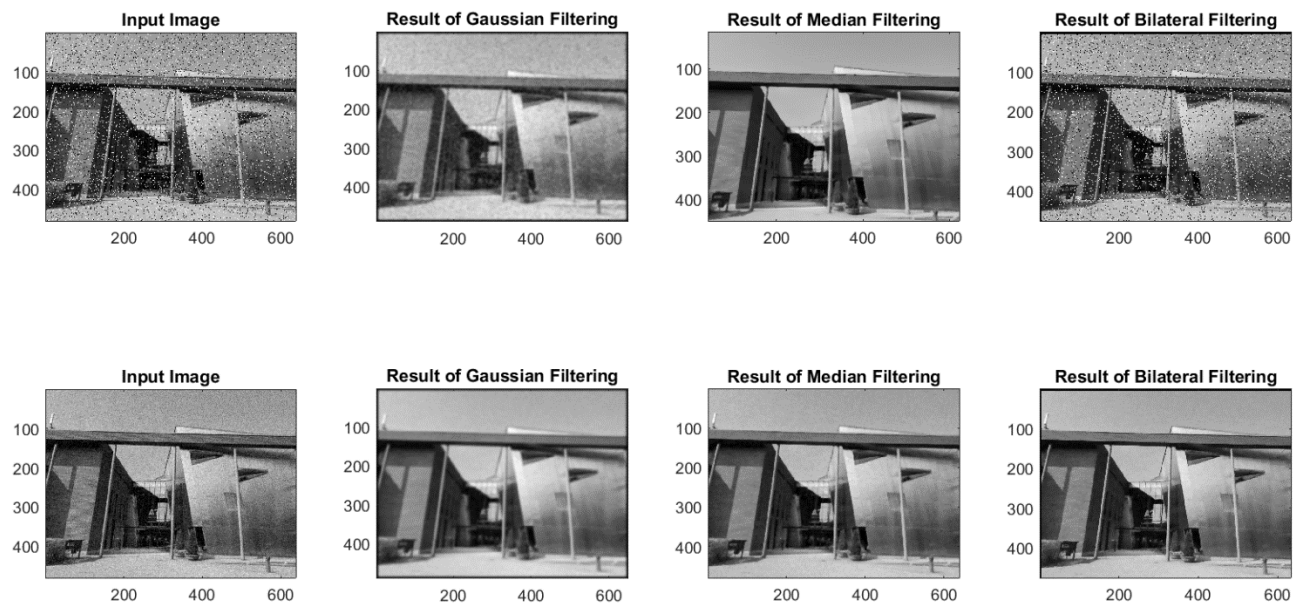
CS-E4850 Computer Vision

Exercise Round 3

Laura Alejandra Encinar

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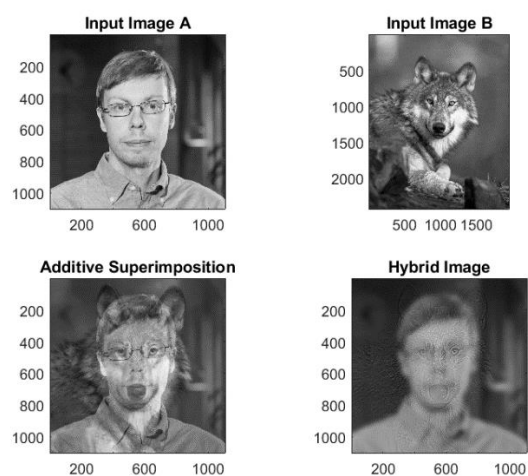
Exercise 1. Image denoising.



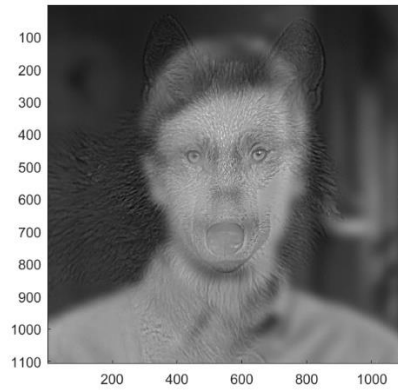
1. Resulting figure after applying Gaussian filtering, median filtering and bilateral filtering.

Exercise 2. Hybrid images.

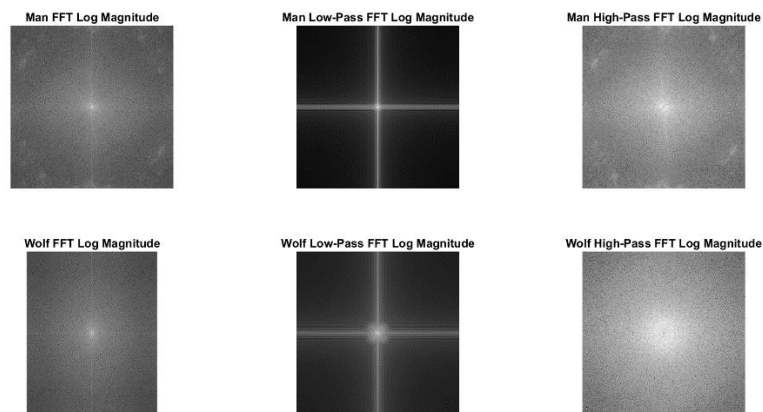
1. Results for $\sigma_A = 15$, $\sigma_B = 5$:



2. Input and output images for $\sigma_A = 15$, $\sigma_B = 5$

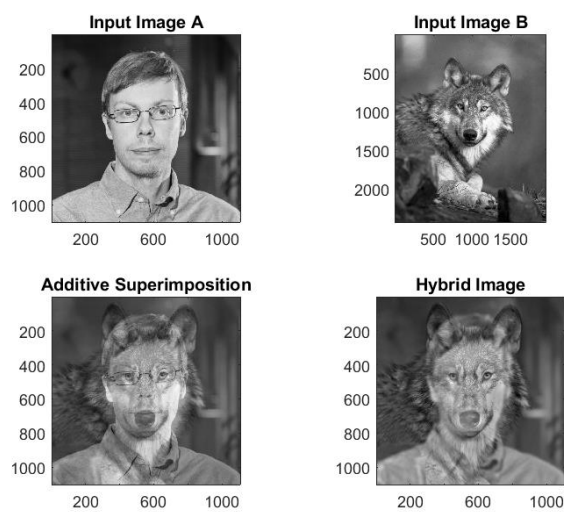


3. Resulting image for $\sigma_A=15$, $\sigma_B=5$



4. Fourier transforms for $\sigma_A=15$, $\sigma_B=5$

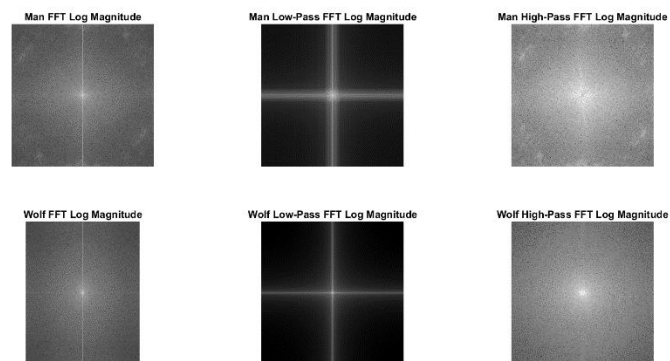
2. Results for $\sigma_A = 7$, $\sigma_B = 35$:



5. Input and output images for $\sigma_A=7$, $\sigma_B=35$

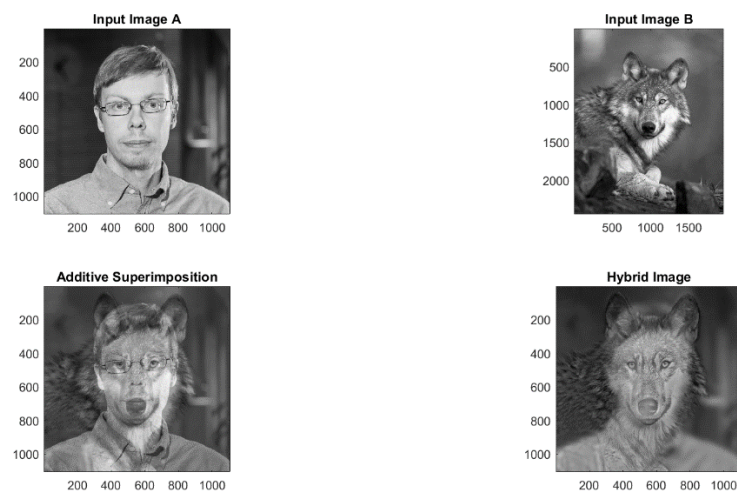


6. Resulting image for $\sigma_A=7$, $\sigma_B=35$

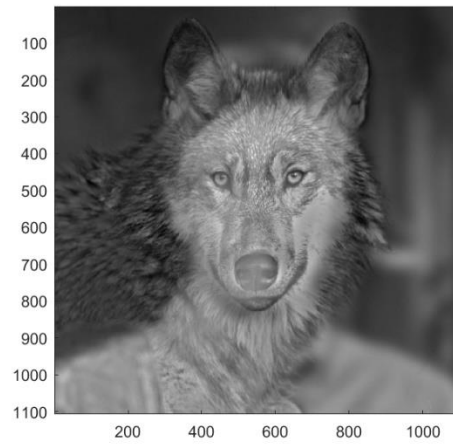


7. Fourier transforms for $\sigma_A=7$, $\sigma_B=35$

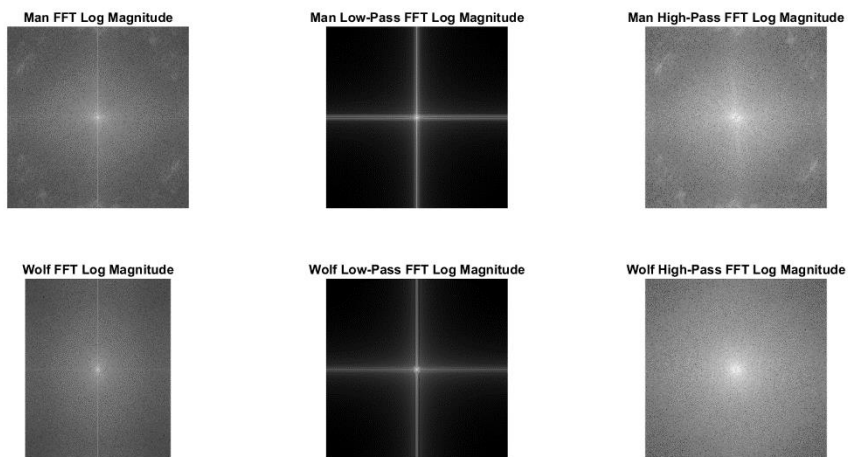
3. Results for $\sigma_A = 17$, $\sigma_B = 17$:



8. Input and output images for $\sigma_A=17$, $\sigma_B=17$

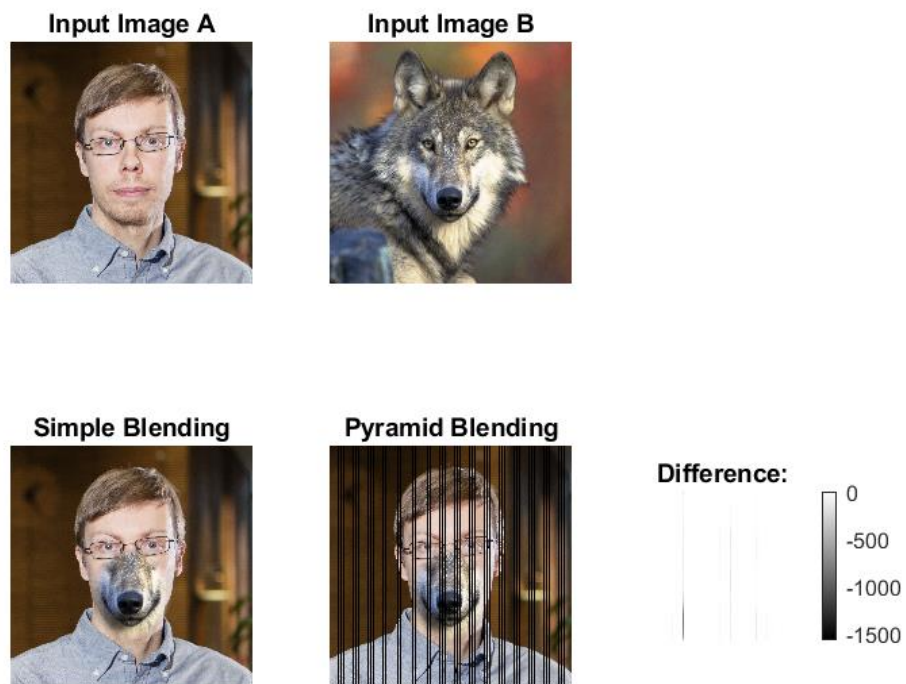


9. Resulting image_for sigmaA=17, sigmaB=17



10. Fourier transforms for sigmaA=17, sigmaB=17

Exercise 3. Image blending via Laplacian pyramids.



11. Results for Laplacian pyramid implementation