Homework 4

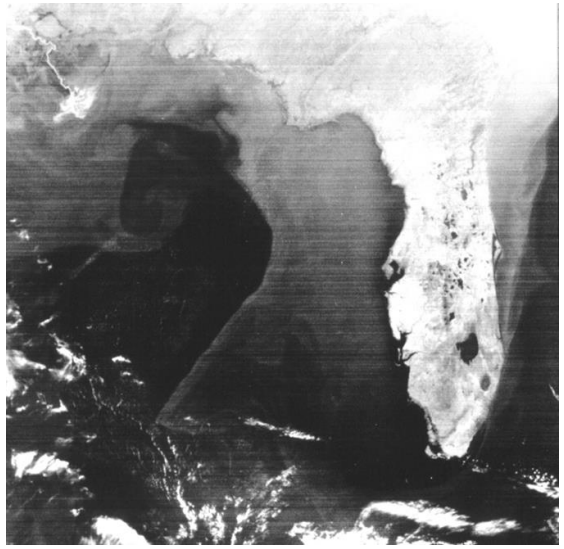
Content:

- Denoising

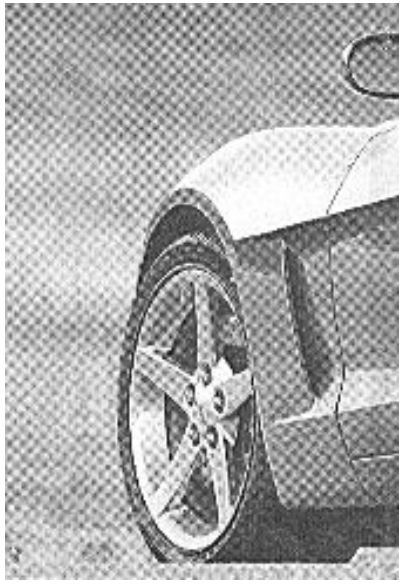
  Step1. Get the Spectrum using Fourier Transform. (ex. np.fft.fft2)

  Step2. Apply filter on Spectrum to reduce noise.

  Step3. Convert the new Spectrum to spatial domain using Inverse Fourier Transform.



test1.tif

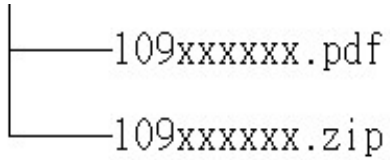


test2.tif

Grading Policy

- Each step: 30pts
- Report: 10pts
- Format penalty: -10pts

Submission



- Report in 3 pages. (STUDENT_ID.pdf)
  1. Method
  2. Result: Image in each step, i.e. Spectrum, Filtered Spectrum, and Final Image.
  3. Feedback
- Code (STUDENT_ID.zip)
- Deadline: 5/5 Fri. 10:10 a.m.