

ECE 5470 Digital Image Processing Homework # 9

Due Date: April 13, 2020 4:00 pm

1. Tone and Color Correction

Download the image "Fig9-1a.tif" and "Fig9-1b.tif".

- a. Adjusting the RGB components equally to make tone and color correction.
- b. Display the results.

2. Smoothing

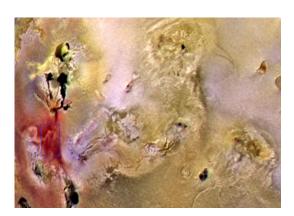
Download the image "Fig9-2.tif".

- a. Apply 5x5averaging mask to each RGB component of the image to make image smoothing and display the result
- b. Apply 5x5averaging mask to each HSI component of the image to make image smoothing and display the result
- c. Find and display the difference between the two results

3. Image Segmentation

Download the image "Fig9-3.tif".

- a. Apply Image segmentation in RGB colors using the Euclidean distance measurement.
- b. Obtain an estimate of a the "average" color of the marked segment in the following image. (Segment image is given as "Fig9-3b.tif").
- c. You select your threshold D₀
- d. Display the result.



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