ECE 5470 Digital Image Processing
Homework # 8
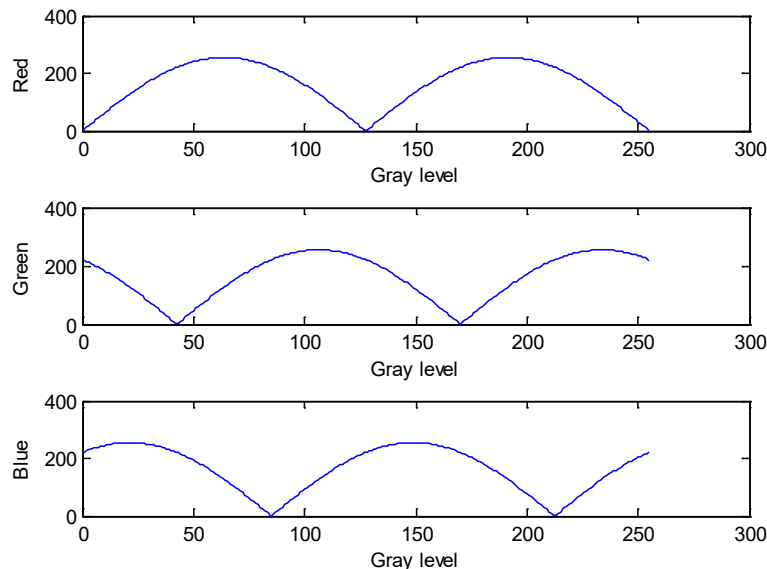*Due Date: April 6, 2020 4:00 pm*

1. Converting Colors

Download the image "Fig5-1.jpg".
a.   Display the RGB component of the image.
b.   Display the HSI components of the image.
c.   Display the HSI components together and compare it with the RGB input image.
d.   Convert back from HSI color image to RGB image and display it again. You should get back to original input image.

2. Pseudocolor Image Processing

Download the image "Fig5-2.jpg".

Apply Psuedocolor enhancement by using gray-level to color transformation function as given

2. Tone and Color Correction

Download the image "Fig5-3.jpg".
a.   Apply gray level transformation (Power-law transformation) each color to make some enhancement and display the result.
b.   Convert image to HSI and apply gray level transformation (Power-law transformation) and display the result
c.   Compare the results of (a) and (b)