

Continuous Evaluation 5(CE 5)

Instruction: Submit only one python file “yourname.py.” You may refer to chapter 6 of Gonzalez book for comparing your results.

(a) Perform tone and color correction on a light (or washed out) image. Given an input image “colors.tif”, apply power law transformation (use $\gamma > 1$) in RGB space. Given an input image “colors.tif”, apply power law transformation (use $\gamma > 1$) in HSI space. (Caution: The power law transformation needs to be applied to only one matrix in this case). Generate a single matplotlib plot containing output images in each case.

For RGB to HSI conversion, you may refer the following link:

<https://www.imageprocessing.com/2013/05/converting-rgb-image-to-hsi.html>