Project #5

assign May 25, 2020 due May 29, 2020

Consider the RGB color image, **violet (clolr).tif** below.

(a) Determine and plot the H, S and I component images.

(b) Apply sphere-based color slicing to the image, using the prototypical color (i) $\boldsymbol{a}_1$ = (134, 51, 143), and (ii) $\boldsymbol{a}_2$ = (131, 132, 4), and the same radius of the sphere, R_0 = 30.

Your report (Word or pdf format) should contain:

- Source codes (30%)
- Figures of H, S and I component images (30%)
- Figure of color-slicing image using $\boldsymbol{a}_1$ (20%)
- Figure of color-slicing image using $\boldsymbol{a}_2$ (20%)

Note: Images must be plotted with good resolution (at least 12cm×12cm).

Upload your report to new e3 before due time!