YTU Department of Mathematical Engineering

MTM4552 Görüntü İşleme Spring 2023

Homework

Due: June 4, 2023 23:55

Research about color image equalization techniques such as RGB,CMY and HSI models and develop a suitable way for applying histogram equalization for Color Images.

Hint: Use color space conversion from RGB to HSI and RGB to YCbCr. Compare histogram equalized images using SNR/PSNR measures. A test image (mandrill.ppm) is packed with this file. Also, C /++functions to read and write ppm files are provided. Prepare your report about homework and deliver your source code(s) on the online system.

Notice: You can use opency and the C/C++ program attached. The solution of any other programming language will not be considered:

You can refer the following web pages for more information.

- 1- https://prateekvjoshi.com/2013/11/22/histogram-equalization-of-rgb-images/
- 2- http://opencv-srf.blogspot.com.tr/2013/08/histogram-equalization.html
- 3- http://www.sistenix.com/rgb2ycbcr.html
- 4- https://arxiv.org/ftp/arxiv/papers/1501/1501.00108.pdf