

Lab Assignment

Please go to

<http://www4.comp.polyu.edu.hk/~cslzhang/comp5422/cdm/>

and download the Matlab files and test image “kodak_fence.tif”.

Please read and run “[test_cdm.m](#)” and see the results.

More test images can be found in

<http://www4.comp.polyu.edu.hk/~cslzhang/comp5422/kodak>

and

<http://www4.comp.polyu.edu.hk/~cslzhang/comp5422/McM>

Lab Assignment (8 points)

1. Write a program to transform a color image from the **RGB** space to the **HSI** space, and then convert it back from **HIS** to **RGB**. You can run it by using the “kodak_fence” image as the input. If the images before and after the conversion are not the same, this means that your code has bugs.
(5 points)
2. Write the color demosaicking code by using method “**bilinear interpolation**”. (3 points)

Note:

1. The evaluation criteria are as follows:
 - 70% for **correctness**
 - 20% for **efficiency**
 - 10% for **style** (including clarity and comments)
2. The due date is week 7 (Feb 20, 2012).
3. You are required to submit your code to the TA (either Mr. Kaihua Zhang or Mr. Meng Yang), **run your code** in the lab and **show the results** to the TA.