Assignment Project #1 "Hybrid Image"

Due date: Tuesday, 03/18/2014, 5:00pm

Description:

Read Olive and Torralba's SIGGRAPH 2006 paper on "Hybrid Images"

 A. Oliva, A. Torralba, P.G. Schyns,   "Hybrid Images," SIGGRAPH 2006 (http://cvcl.mit.edu/publications/OlivaTorralb_Hybrid_Siggraph06.pdf)

A hybrid image is an image that presents different visual content when viewed from different distances. It is created by mixing the low frequency component of an image with the high frequency component of another image together. You should use what you learned from Lecture IV to create your own hybrid images. You should use your own creativity to find your own image sources and create your favorate hybrid images.

What to turn in?

You should write a report to present each of the intermediate results you obtained, such as the low pass and high pass filtered image results used to create the hybrid image. Also present and discuss the final hybrid image you created.

Please make your Matlab code in a single .m file with appropriate comments from each line of the code.

Put your report, your Matlab code, and the source images to create you used into a single zip file. Submit it through Moodle before the due time.

Please name your folder as well as the zip file as
[yourfirstname]_[yourlastname]_Project1.zip

If your code can not run, you may also turn in it with more detailed comments on what you did and tested in your code.

Bonus Points:

You get 2 bonus points if you make your hybrid image results in color images. You may think if you need to use color image for both the high and low frequency component.

Any creative results you made in your project will also be granted additional bonus points.

Grade: 10%

You will be penalized if your code can not run. You will also be penalized if you did not create the hybrid image in the right way.

Late submission policy applies universally with no exception.

If you have a compelling excuse, you must inform me at least 2 days before the due date. I don't accept excuses such as "I am overloaded by other courses".