Assignment Project #2 “Corner Detection”

Due date: Thursday, 03/08/2012, 5:00pm

Description:

Read the seminal paper of [Harris and Stephens’88]

C.Harris and M.Stephens. "A Combined Corner and Edge Detector.", Proceedings of the 4th Alvey Vision Conference: pages 147—151, 1988.
http://walle.sdsmt.edu/faculty/rhoover/teaching/F11/692/Papers/HarrisStephens.pdf

You will need to implement the Harris Corner point detector, following the lecture slides, book, and the above paper.

What to turn in?

You should write a report to present each of the intermediate results you obtained, such as the corner response map, etc..

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 you used for generating the results in your report 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.

****Important Notice: Please also bring a printed copy of your report to the class in the due day of the assignment. This is mandatory*****

Bonus Points:

You get 3 bonus points if you go one step further to detect multi-scale Harris corner points.

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".