

Assignment #2 Notes

Getting Started in Lab

(1) Use Fetch to download the following three subdirectories from the course directory on the CS file server to your Desktop:

```
/home/cs332/download/edges  
/home/cs332/download/assign2  
/home/cs332/download/assign2images
```

(2) In MATLAB, set the Current Directory to the assign2 folder

(3) In MATLAB, add the edges and assign2images folders to the MATLAB search path:

- (a) from the **File** menu, select **Set Path...**
- (b) in the dialog box that appears, click on the **Add Folder...** button
- (c) in the browser window that appears, navigate to the place where you see the edges folder listed, select it with a click, and then click on the **Open** button
- (d) repeat steps (b) and (c) for the assign2images folder
- (e) close the **Set Path** window - you will be asked whether you want to save the changes for future MATLAB sessions – click on **No** (MATLAB won't actually let you save)

Finishing Up

At the end of lab, upload your assign2 folder to your personal directory on the CS file server.

Continuing your work on this assignment at a later time

In the future, you should again download the edges and assign2images folders from the course directory as described above, but download the assign2 folder from your personal directory. Also repeat steps (2) and (3) above. If you make changes to the code files in your assign1 folder, be sure to upload the modified files onto your personal directory.

Problem 1: Analyzing intensity changes in a two-dimensional image

```
edit yachtScript.m           % open yachtScript.m in the editor  
yachtScript;                 % run the script file
```

Drag apart the Image Tool windows to view them separately, and use the Pixel Region tool to view the contents in more detail. Click on the zoom-in or zoom-out icons in the Image Tool window to turn zooming on or off.

```
displayImage(zc4,8);         % display the slopes of the zero-crossings  
displayImage(zc8,16);
```

MATLAB programming tip: Terminating a program

When a MATLAB program is running, the word “Busy” appears in the lower left corner of the main MATLAB window. Execution can *usually* be terminated by typing **control-C**.