

LAB WORK 1

Due by February 25,2010, 5PM

The Image Processing Library (IPL) is installed on disk **:D** of several computers in the Computer Lab at Journalism Building. In the same folder you will find a folder which contains images. The name of every image begins with a number. You will use for your Lab work the image which begins with the number I gave to you during the last lecture.

If you have problems to find the please contact Mr. Raja via rajnag22@gmail.com .

The folder which contains the IPL has a name “Exe_Files_User_Guide”. There you will find a number of Image Processing tools. Also, there is .pdf file which will explain to you how to run every tool and what kind of problems you could solve with this tool. Please read the .pdf file and learn what you can do with every software tool.

You have to choose the right tool or sequence of tools to be applied in order to enhance the image. The requirements are:

- 1) Reduce or clean up the noise, if any noise, you think, exist in the image you are working with.
- 2) If possible, make the background and object interior consistent (no big jumps exist in the colors). Bring up the object’s boundaries. For images 3-7 and 11 the subject of interest is the long object. In image 10 subject of interest are all objects. In images 8 and 9 single object exists.

Submit your report in a single word document. Put the result images along with the intermediate images (if any) in a table. Give the name of the tool (or tools) along with the specific parameters you have applied.

Use the following type of naming for your result or intermediate images:

originalname_oper1.bmp

or *originalname _oper1_oper2_oper3.bmp* if you use more than one operator for your work.

E-mail your results no later than Thursday February 25, 2010. Extra points will be given for any extra work, or original reasoning, or good presentation of the results, or good report.

Please submit your Lab work on time. A late submission will lead to cut of marks. Marks will be cut also if the submission is not in the required format.