

## **LAB WORK 1- Due by April 02, 2013, midnight**

The Image Processing Library (IPL) is installed in the main directory of the computers in the Math Lab at Binnion building. The folder is named: **c:\Image\_Processing**. In the same folder you will find a folder which contains images. The name of every image ends 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 materials please contact Mr. Pravin Kandhare.

The folder that contains the software tools contains also a .pdf file which will explain to you how to run every software 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 assigned to you. The requirements are:

1. The weapon images **contain** shadow or noise around the object's boundary *you must erase this*.
2. For the skin lesion images sharpen the boundary and/or the lesion.

### **Note:**

-many of the tools work only with .bmp images. If necessary convert your image to the appropriate format;

- for your experiments do not shrink or enlarge the images.

Submit your report in a single word document.

Include the original image, the result images along with the intermediate images (if any). For every image give the name of the tool (or sequence of tools) along with the specific parameters you have applied to receive the results.

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

*originalname\_sof1.bmp*

or

*originalname \_sof1\_sof2\_sof3.bmp* if you use more than one operator for your work.

Name your report Name\_lab1.doc (Name means your family name).

E-mail your results no later than **Tuesday April 02, 2013, midnight**.

**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 off marks. Marks will be cut also if the submission is not in the required format.

In case of any question please feel free to ask me or Mr. Pravin Kandhare.