

# Multimedia System Homework Report

## Part 3(Final project and team members list)

Members( 1 ):

- Yacine Sahli E10715005 Department of Computer Science  
[Yacine.sahli@student.umons.ac.be](mailto:Yacine.sahli@student.umons.ac.be)

Topic: Convolution Image Matrix

Purpose: Applying convolution matrix to image to obtain different effects such as sharpening, unsharpening, blurring, edge detection and many more possibilities. The user may select a pre-made convolution matrix or input his own made matrix.

Input: One image or a folder containing images. Optionally a custom convolution matrix to be applied on the image(s). The user can select on which color channel should the convolution matrix be applied, such as red, green or blue or a combination of those colors. Other options such as JPEG quality and settings for the output images may be given to the user.

Output: One image or a folder containing all the images in the input with the selected convolution matrix or the custom convolution matrix given by the user applied on the images. A log.txt of the execution may be placed in the folder for infos about images quality, settings and convolution applied.