

ROBOTICS - Python Development - Lab 11 - Homework

- 1. We need to process images for identification of logos and marks by automated software. We need to implement the following operations for such images using OpenCV, as a data preparation step:
 - a. Resize the image to have exactly 500 pixels width, the height being proportionally modified;
 - b. Transform the image to grayscale;
 - c. Transform the image to binary using a threshold equal to grayscale pixel average value;
 - d. Generate the image contours using canny algorithm with minimal and maximal thresholds being 0.25 and 0.75 of average pixel values of the threshold image;
 - e. Save the contour image in PNG format.

Implement the sequence of operations above and test it on the file **Logo_UTCN.png** from the **images** directory of the homework directory.