Assignment 3

Deadline: Tuesday, March 19, 2024 (end of day)

Objective

In this exercise, you will perform several binarization algorithms on a RGB image of a document and compare the different method.

Task: Binarization

(a) Conceive an algorithm to perform a binarization based on a simple non adaptative thresholding.

(b) Based on a global thresholding, conceive an other binarization algorithm.

(c) Design an algorithm to perform binarisation based on local adaptative thresholding.

(d) Apply your algorithms on an RGB image of a document. Examples are provided in ILIAS.

(e) Optional: conceive and apply a fourth binarization algorithm of your choice.

(f) Submit on ILIAS:

- Your code (one file should be enough).
- At least four images: the original image, one binary image for each method.
- A file text with your name, surname and a brief description of your algorithms.