

Image Processing

ECE 4367 / ECE 5367

Project 2

Write a script that can automatically localize and undo the rotation of a playing card that is presented to a camera.

Your script must follow these restrictions and specifications:

1. It may only use predefined functions for image I/O (e.g., Matlab's `imread`), display (e.g., Matlab's `imshow`) and geometric transformations (e.g., Matlab's `imrotate`). Use of other functions may be allowed after a case-by-case consideration.
2. Except for I/O filenames, it may not ask for any user input.
3. It must display the input and output pairs as shown in the example below.
4. It must successfully process the three test images that are provided. Processing other test images is highly recommended.

Upload a **flowchart of your algorithm** and a **single source file** to Blackboard before the deadline.

Be sure to name files as **Lastname_Firstname_P#.***

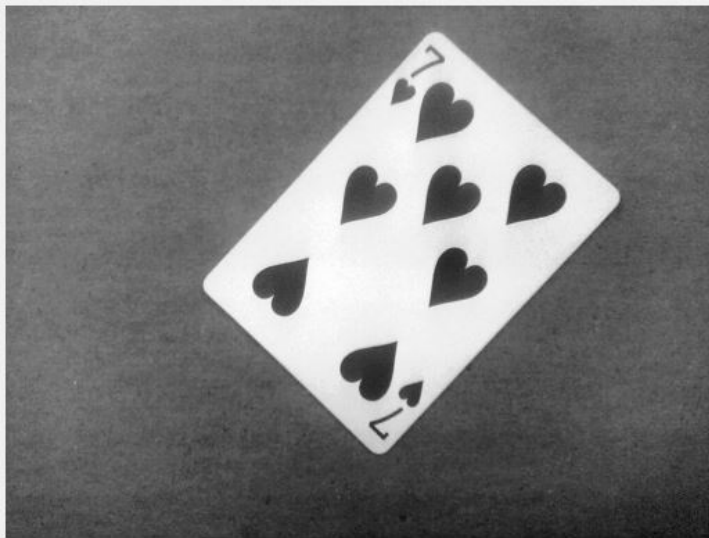


Figure 1. Input Image



Figure 2. Output Image – aligned and cropped