

Midterm Project - Phase 1

June, 2020

Soheil Changizi

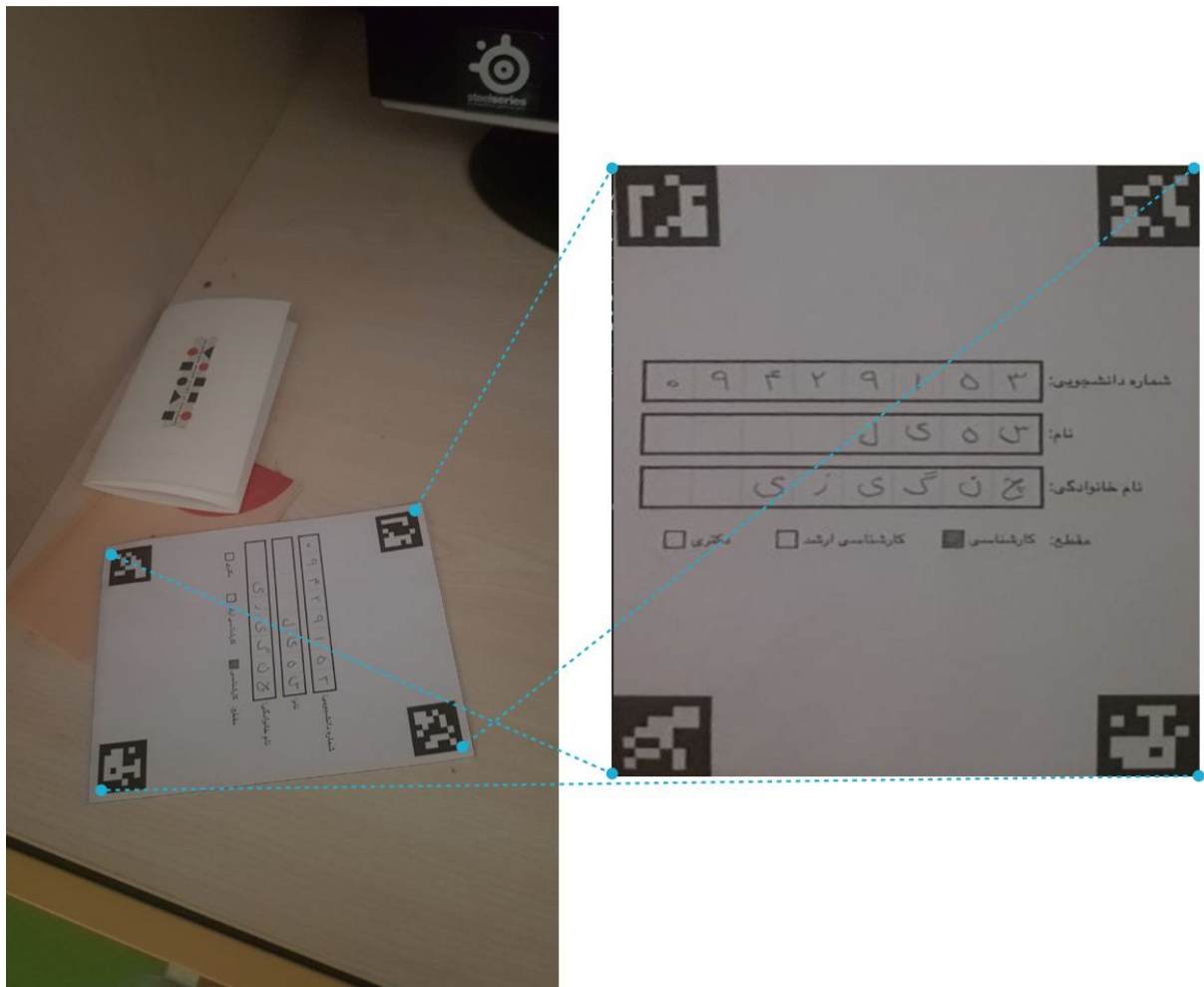
Gathering Data From the Form

You will be given a picture taken from the form below. Your task is to extract the images of the letters in each box, and well as the checkboxes.

The form contains the following elements:

- شماره دانشجویی: (Student ID field)
- نام: (Name field)
- نام خانوادگی: (Family Name field)
- مقطع: (Academic Level section) with checkboxes for:
 - دکتری (PhD)
 - کارشناسی ارشد (MSc)
 - کارشناسی (BSc)

You have to extract the form from the photographed picture and correct its perspective. As for the 4 corner points you need to detect 4 [ArUco markers](#) in the form, which are from `cv2.aruco.DICT_6X6_250` dictionary.



Now that you have rectified the form, you must extract the image of each letter, number and checkbox and save them as separate files.

HINT: You can roughly find the position of each box after perspective correction. Think of ways of obtaining the exact positions.

The output must be saved in the format below:

