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Questions Regarding Image Processing Project (OMR)

Youssef Ghatas <youssef.s.ghatas@gmail.com>　　　　　　　　Wed, Dec 16, 2020 at 2:29 PM
To: Mahmoud Medhat <mahmoud.abozeid98@eng-st.cu.edu.eg>

Hello Mahmoud
Inline.

On Wed, 16 Dec 2020, 13:24 Mahmoud Medhat, <mahmoud.abozeid98@eng-st.cu.edu.eg> wrote:
> Dear, eng.Yousef
> Would you kindly answer some of our questions regarding the project?
>
> > 1. Will the resolution and ppi of any test case be low enough to cause any extraction issues? (this is especially important for camera-captured images)

Hopefully not. But in any case it is a competition, so if any test case is unrecognisable, it will fail for all submissions.

> > 1. Will a test case differ drastically from another one in terms of resolution?

Yes it may.

> > 1. Can an image be rotated till it's nearly 90 degrees?
>
> > 1. Can an image be rotated till it's upside down?
> > 2. What's a skewed image? Is it like (1) or (2) or something completely different?

Either of them is possible and other combinations with rotation and scaling.

> > 1.
> > 2. How severe is this skewing effect?

> > 1. Will we be provided with any handwritten test cases?

Before delivery.

> > 1. Can we use a simple neural network after all the segmentation steps to recognize just a single note?

After extracting features from it, you can use a classifier. But NN cannot be used to extract features & classification

> > 1. Can we use opencv alongside scikit-image?

It is your responsibility to make sure it works in the given docker environment.

1. We know that erosion, for example, is a primitive function. Are "hough_lines()" and "probabilistic_hough_line()" considered primitive functions?

Yes.