

Digital Image Processing

Color Coded Academic ICal

Team ID : 22

Team Members:

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Problem Statement

Input: Image of the calendar

Output: Converted ICal

Given an image of an academic calendar convert it into a form that can be modified by the users. Basically we have to convert the text in the image to editable text. This text can then be converted into a color coded ical.

How things will be Done:

- Detect the edges using edge detection algorithms.
- Separate each block from the image.
- First recognize text in the image and then separate them. (First separate the words and then separate the individual characters from the words.)
- Detect the words in the separated images.
- Detect colors from the image.
- Construct an object which stores information gained from the converted text.

GitHub Link:

https://github.com/appari/dip_project

Results of project

1. **Detect edges:** Detect the edges in the image so that we can be able to identify the text in each block separately.
2. **Separate the blocks:** Separate the blocks from the image and recognize the text in the image.
3. **Recognize text :** Given the image of the calendar we must be able to get the text from them and store them.
4. **Detect Text:** Detect the text that is recognized and convert it into editable text.
5. **Extract the colors:** Must be able to extract different colors from the image have to store them.
6. **Construct a Object :** Must be able to construct a object from the above data which can be converted into any type of Calendar.

We will finally get a object which stores all the information there in the image including the colors. Then use this object to generate the color coded ical.

Milestones

<u>Milestone</u>	<u>Date</u>	<u>Task allocation</u>
Gather the background information for the project	October 4	(Both)
Detect the edges	October 8	Appari Lalith

Detect the edges using and separate block	October 22(Tentative)	(Both)
Seperate the blocks	November 5	(Both)
Detect Colors from the image	November 9	Sai Preetham
Gather various types of information from the Image and convert them into an object	November 14	(Both)
Construct an ical	November 15	(Both)

