Computer Vision Workshop Website

User Guide

Introduction

Welcome to the Computer Vision Workshop Website. This guide will help you navigate through the process of submitting your choice of algorithm for solving a background subtraction problem. The dataset your algorithm is evaluated depends on the current active contest, but the default is a subset of changedetection.net (CDnet 2014).

Creating an Account

1. Click on the "Login" button located on the top right of the homepage. If you do not have an account click on the "Sign up" link after clicking the Login button.
2. Fill out the fields first name, last name, email, password, and confirm password fields. All the fields are required.
3. If your email has been used to make an account before, you will be asked to input a different email. Otherwise, your account has been created and you will automatically be logged in.

Navigating the Webpage

Once logged in, you will be redirected to the home page. The navigation at the top will have a few different options.

Home: This will take you back to the homepage.

Leaderboard: This will take you to the leaderboard. You can see the rankings of all public submissions for the current active contest. Leaderboard submissions are ranked based on F-Score in descending order by default. You can sort ascending and descending for F-Score, Accuracy, Precision, and Recall. You can also filter submissions by users and/or submission name. On the right, there is a Columns button

which opens a dropdown menu where you can select and deselect columns. You do not need an account to view the leaderboard; it is open to the public.

Resources: This will take you to the resources page, which has two example submissions as well as a skeleton code that you can download.

Submit: This will take you to the new submission page where you can submit your algorithm. This will be talked about in more detail in the next section.

Contest: This will take you to the contest page where you will be able to see details about the current active contest. If there is no active contest, the page will say "No active contest"

Profile: The Login button has been replaced with a Profile button. When you click on this button, it will open a dropdown button with three options: "My Account", "Submissions", and "Logout". Click on "My Account" if you want to view and edit your profile details. You can edit your first name, last name, email, and password. Click on "Submission" to view all your submissions. Click on the name of a submission to see details. Click on the Click on the "Logout" option if you want to log out.

Submitting an Algorithm

Algorithm Details

1. Click on the "Submit" option on the navigation bar.
2. Give a name to your submission. Name must be unique. Writing a description is optional.
3. Choose an Authority. If you choose "Public", your submission will be visible on the leaderboard. If you choose "Private", your submission will not be visible, but you will still be able see the performance metrics and time taken once it has been processed.

Uploading Files

1. Click on "Choose File" and upload your submission. This file must have the file extension ".py"

2. Before submitting, ensure your submission follows the rules. Recheck the Resources Page for details

Submission Confirmation

If your submission was submitted successfully, it will appear on the left side. If not, you will receive an error message detailing what went wrong. Remember: contests have a limited number of submissions per user. If you have made too many submissions, you will have to contact an admin to either delete one of your submissions or grant you more submissions.

Viewing Submission Status

Now that your submission has been officially submitted, you can click on it on the left side of the submissions page. Here you can see the name, status, and description of your submission. At first, under status, it will say "Under Evaluation". Once evaluation has been completed, the status will change to "evaluated". This will take between a few seconds and a few minutes. You may have to refresh your page to see the status change. Once your submission status is "evaluated", you will be able to see the F1-score, Accuracy, Precision, Recall, and Time of your submission. There will also be a quick link to the leaderboard page where you can see how well your submission did compared to others (If you chose the "Public" option)

If your submission status is "failed", we are unable to run your submission. There will be an error message with details. Check the Resources Page or contact an admin for more details.