

VAST Challenge 2020

Mini-Challenge 2

Data

The data includes sets of images and text files associated with a person of interest. Some text files contain captions that are associated with a specific image and some are independent text-only data.

Each image also has a data file that includes the coordinates of objects identified in the images. Objects were identified using the YOLO v2 deep learning algorithm trained on the provided training images and augmented variations thereof. Participants may use these labels or develop their own image classifier. Your image classifier may perform better than the one used for this data.

A set of training images for a group of items that we expect to find either in the images or described in the text.

Data format and naming

All images are supplied as JPG files.

Image files are named for the person they are associated with and numbered sequentially. Each image has a data file in CSV format. The data file has the same root name as the image it refers to. Example: Person27_1.csv is the data file for Person27_1.jpg. If an image has a caption the file will be named Person27_1caption.txt, for example.

The format for the data file is:

- First row headers: x, y, Width, Height, Score, Label
- X and Y are the coordinates of the upper left corner of the bounding box that indicates the location of an identified object.
- Width and height are the dimensions of the bounding box for X and Y respectively.
- The score is a confidence metric that the object identifier produces when outputting a classified image. All classifications with confidence less than 0.25 have already been filtered from the data. This value was intentionally chosen to be lower than optimal (resulting in a high rate of false positive identifications). You may choose to further filter based on this value.
- Label is the name of the object that has been identified by the algorithm.

Data rows:

Each new row in the data indicates a new object that was identified in the image.

In a few occasions text-only data is available. Data files for text that are not captions have file names like Person29_text1.txt and are sequentially numbered.

Training images are in a separate archive named TrainingImages and are separated by object into folders. All images are JPG files.