Bad Annotated File: All bad annotation of video frame have been listed in bad_annotated_data-fame

How to train FRCNN to extract hand and output class:

1. Run Train_hand_detection_specialization_Frcnn.ipynb file
2. Write images to train_images_hand_specialization directory from given videos and generate open_three_closed_annotate.txt file using videos data.xlsx and provided video.
3. Open terminal and run the following command
   python train_frcnn.py -o simple -p open_three_closed_annotate.txt

Parameter Tune: Edit train_frcnn.py file to edit num_epochs default value to desired number. For each epoch it takes time. It will generate config.pickle weight file and model_frcnn.hdf5 model file. For each epoch it will update the weight. open_three_closed_annotate.txt file format

Image_path xmin ymin xmax ymax output class

Predict The output using images.

1. Open the Predict_hand_detection_specialization_Frcnn.ipynb
   Run every section. You will get data frame for each probable class for corresponding image input.