

Team TRM
Plan of Action
Michael, Nikita, Rosemond & Trung

What will you keep from the baseline?

We plan to keep the preprocessing and the sobel edge detection feature extraction. Scrap clean and work from there.

What will we do now?

Clean up our random forest classifier and preprocessing from the baseline. Implement a more thorough preprocessing function that will filter all the images and get only the hand with the background abstracted out. Extract more useful features besides the sobel edge histogram. We are not sure which ones yet but we are actively looking.

What will be our training strategy?

We wanted to investigate a CNN implementation. However, we are very happy with the results from the Random Forest. If we begin to encounter problems where the scores are not as high as we expect them to be, then we will begin to investigate experimenting with other classifiers.

APRIL 2 – APRIL 8:

Division of Tasks	
Michael	Delete random features the Random Forest Classifier generated
Nikita	Look into more useful feature extractions
Rosemond	Delve into PyTorch and use another classifier
Trung	Rework preprocessing to account to monochromatic images

APRIL 9 – APRIL 17:

Division of Tasks	
Michael	Use another feature extraction in conjunction with Nikita
Nikita	Implement feature extractions found & discuss results
Rosemond	Sample implementation of CNN, compare results
Trung	Think about what to do for off-center hands & account for it when running tests

APRIL 18: ONE PAGE PROGRESS REPORT DUE.

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APRIL 19 – APRIL 22:

Division of Tasks	
Michael	Clean up code, add any final touches
Nikita	Clean up code help
Rosemond	Create presentation & report
Trung	Create presentation & report

APRIL 23: IN CLASS PROJECT COMPETITION. PROJECT REPORT DUE.