Notes 07-04-2020

80% - 20% training – testing split

Try to flip the order of estimation

Estimation is made to give nice approximated shapes

Experimenting with the cropping values:

Cropping frames might not be needed to be cropped

Early termination

We should always have this

SVM model:

Revisit the last lecture from ML

Maybe we won’t get good results ever because of limits from tensor

NN classifier:

Curse of dimensionality

Distribution of the points might affect this

Basic model with simple constraint:

Compare tensor models

Estimate one U2 value for each frame

Todo:

Create final classifier – Check if current sklearn cross validation is good enough or if we need to do something else (looks like it already does 5 fold cross val using the full U2 so we might not need to do it ourselves) - Martin

Test cropping values – 6 different cropping values, always one matrix full, other in 1/3 steps (so full U2, 1/3 U3, full U2 2/3 U3 and so on) - Thorvald

Stopping criteria for estimation: - Martin

* Error increases by more than x from last iteration
  + Find out what the error is after first iteration and how much it usually changes (for the better)
  + Setup 3-5 different values and test
* Error below some threshold
  + Same as above
* J number of iterations
  + Try 10,20,50 maybe more – use best judgement
* Remember to also try combinations of above points

Show what we did and reflect on the other possibilities

Revisit the writing, put key words and comments