

Tyson Cross 1239448, Jason Smit 709363

Progress report:

- Created per sequence image masks (Nuke)
%20 (48397/246423 images) / 110 events) including augmented data
- Selected a method to determine the duration of a strike and present the ev
- Trained networks
 - U-net
 - DeepLabV3
 - Segnet
 - Alexnet
 - FCN8s
- Created a filter that averages the pixels that are below a threshold to reduce noise in dark regions
- Tested the augmented data and added it to the dataset
- Removed problematic data from the training dataset
- Integrated the directionality and event information tools into the application
- Modified the segment script to allow calls from the training script
- Added event details to segment app
- Working on graphics for the open day
 - Network
 - Cluster technique
 - Overall system diagram
 - Videos
 - Overall segmentation example
- Working on open day poster
 - System diagram
 - Network metrics
 - Colour and layout
 - Methodology

Agenda:

Problems:

- No LSTM
- False detection -> Effects the event segmentation
 - Using a pixel count threshold to compensate is this good enough?
- Low/high variance in data

Plan for next week:

- Finish the poster and presentation video
- Print the poster
- Setup for open day
- Metric evaluation
- Write reports