

Modality 1 - Thermal  
Non Falls - 48, Falls - 173

Modality 2 - ONI\_IR  
Non Falls - 48, Falls - 173

Train Dataloader - 48  
Test Dataloader - 173

Device Used - cuda

Model Used - EarlySubtraction\_3DCAE  
Key Frame Extraction - False  
Feature Extraction - True  
Background Subtraction - True  
Background Subtraction Algorithm - GMG  
Data Augmentation - False  
Spatial Temporal Loss - False

Frame rate adjusted dataset - True  
Synchronise Video - True  
Video length adjustment method - Not Applicable

Window Length = 8  
Stride = 1  
Fair Comparison = True  
Dropout = 0.25  
Learning Rate = 0.0002  
Num Epochs = 20  
Chunk Size = 64  
Forward Chunk Size = 8  
Loss Fn = SmoothL1Loss()

Training has Begun  
epoch [1/20], loss:0.0000  
epoch [2/20], loss:0.0000  
epoch [3/20], loss:0.0000  
epoch [4/20], loss:0.0000  
epoch [5/20], loss:0.0000  
epoch [6/20], loss:0.0000  
epoch [7/20], loss:0.0000  
epoch [8/20], loss:0.0000  
epoch [9/20], loss:0.0000  
epoch [10/20], loss:0.0000  
epoch [11/20], loss:0.0000  
epoch [12/20], loss:0.0000  
epoch [13/20], loss:0.0000  
epoch [14/20], loss:0.0000  
epoch [15/20], loss:0.0000  
epoch [16/20], loss:0.0000  
epoch [17/20], loss:0.0000  
epoch [18/20], loss:0.0000  
epoch [19/20], loss:0.0000  
epoch [20/20], loss:0.0000  
Training has Completed

Forward pass occurring  
Forward pass completed

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STD Global Classification Results

TPR 0.877, FPR 0.153, Precision 0.073, Recall 0.877

tn 111016, fp 20106, fn 221, tp 1575

std\_AUROC 0.933  
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## Mean Global Classification Results

TPR 0.895, FPR 0.197, Precision 0.059, Recall 0.895

tn 105280, fp 25842, fn 189, tp 1607

mean\_AUROC 0.922  
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```
d:\Abdul Rasheed NITT\Academics\Eighth Semester\FYP\Implementation\FallDetection\Code\functions.py:302: RuntimeWarning: Mean of empty slice
```

```
    final_performance_mean = np.nanmean(video_metrics, axis=0) # get the mean performance across all videos
```

```
c:\Users\abdul\anaconda3\envs\fyp_base_paper_2\lib\site-packages\numpy\lib\nanfunctions.py:1670: RuntimeWarning: Degrees of freedom <= 0 for slice.
```

```
    var = nanvar(a, axis=axis, dtype=dtype, out=out, ddof=ddof,
```

())





