

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

Modality 2 - IP
Non Falls - 48, Falls - 173

Train Dataloader - 48
Test Dataloader - 173

Device Used - cuda

Model Used - MultiModal_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 = L1Loss()

Training has Begun
epoch [1/20], loss:0.0010
epoch [2/20], loss:0.0005
epoch [3/20], loss:0.0003
epoch [4/20], loss:0.0003
epoch [5/20], loss:0.0002
epoch [6/20], loss:0.0002
epoch [7/20], loss:0.0002
epoch [8/20], loss:0.0002
epoch [9/20], loss:0.0002
epoch [10/20], loss:0.0001
epoch [11/20], loss:0.0001
epoch [12/20], loss:0.0001
epoch [13/20], loss:0.0001
epoch [14/20], loss:0.0001
epoch [15/20], loss:0.0001
epoch [16/20], loss:0.0001
epoch [17/20], loss:0.0001
epoch [18/20], loss:0.0001
epoch [19/20], loss:0.0001
epoch [20/20], loss:0.0001
Training has Completed

Forward pass occurring
Forward pass completed

```
-----  
STD Global Classification Results  
TPR 0.881, FPR 0.215, Precision 0.045, Recall 0.881  
tn 100054, fp 27473, fn 174, tp 1284  
std_AUROC 0.905  
-----
```

```
-----  
Mean Global Classification Results  
TPR 0.819, FPR 0.120, Precision 0.072, Recall 0.819  
tn 112164, fp 15363, fn 264, tp 1194  
mean_AUROC 0.925  
-----
```

```
d:\Abdul Rasheed NITT\Academics\Eighth Semester\FYP\Implementation\FallDetection\Code\func  
tions.py:250: RuntimeWarning: Mean of empty slice  
    final_performance_mean = np.nanmean(video_metrics, axis=0) # get the mean performance a  
cross all videos  
c:\Users\abdul\anaconda3\envs\fyp_base_paper_2\lib\site-packages\numpy\lib\nanfunctions.p  
y:1670: RuntimeWarning: Degrees of freedom <= 0 for slice.  
    var = nanvar(a, axis=axis, dtype=dtype, out=out, ddof=ddof,
```

```
-----  
STD Global Classification Results  
TPR 0.866, FPR 0.186, Precision 0.050, Recall 0.866  
tn 103780, fp 23757, fn 194, tp 1254  
std_AUROC 0.905  
-----
```

```
-----  
Mean Global Classification Results  
TPR 0.873, FPR 0.201, Precision 0.047, Recall 0.873  
tn 101950, fp 25587, fn 184, tp 1264  
mean_AUROC 0.899  
-----
```

```
c:\Users\abdul\anaconda3\envs\fyp_base_paper_2\lib\site-packages\sklearn\metrics\_ranking.  
py:1132: UndefinedMetricWarning: No positive samples in y_true, true positive value should  
be meaningless  
    warnings.warn(  
c:\Users\abdul\anaconda3\envs\fyp_base_paper_2\lib\site-packages\sklearn\metrics\_ranking.  
py:979: UserWarning: No positive class found in y_true, recall is set to one for all thres  
holds.  
    warnings.warn(  
c:\Users\abdul\anaconda3\envs\fyp_base_paper_2\lib\site-packages\sklearn\metrics\_ranking.  
py:1132: UndefinedMetricWarning: No positive samples in y_true, true positive value should  
be meaningless  
    warnings.warn(  
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c:\Users\abdul\anaconda3\envs\fyp_base_paper_2\lib\site-packages\numpy\lib\nanfunctions.p  
y:1670: RuntimeWarning: Degrees of freedom <= 0 for slice.  
    var = nanvar(a, axis=axis, dtype=dtype, out=out, ddof=ddof,
```

```
-----  
STD Global Classification Results  
TPR 0.866, FPR 0.168, Precision 0.056, Recall 0.866  
tn 106102, fp 21425, fn 196, tp 1262  
std_AUROC 0.920  
-----
```

```
-----  
Mean Global Classification Results  
TPR 0.869, FPR 0.184, Precision 0.051, Recall 0.869  
tn 104093, fp 23434, fn 191, tp 1267  
mean_AUROC 0.913  
-----
```

```
d:\Abdul Rasheed NITT\Academics\Eigth Semester\FYP\Implementation\FallDetection\Code\func  
tions.py:250: RuntimeWarning: Mean of empty slice  
    final_performance_mean = np.nanmean(video_metrics, axis=0) # get the mean performance a  
cross all videos  
c:\Users\abdul\anaconda3\envs\fyp_base_paper_2\lib\site-packages\numpy\lib\nanfunctions.p  
y:1670: RuntimeWarning: Degrees of freedom <= 0 for slice.  
    var = nanvar(a, axis=axis, dtype=dtype, out=out, ddof=ddof,
```

()













