

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 - LateAddition_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 = MSELoss()

Training has Begun
epoch [1/20], loss:0.0120
epoch [2/20], loss:0.0027
epoch [3/20], loss:0.0019
epoch [4/20], loss:0.0015
epoch [5/20], loss:0.0012
epoch [6/20], loss:0.0010
epoch [7/20], loss:0.0009
epoch [8/20], loss:0.0006
epoch [9/20], loss:0.0005
epoch [10/20], loss:0.0004
epoch [11/20], loss:0.0003
epoch [12/20], loss:0.0002
epoch [13/20], loss:0.0001
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

MultiModal_Thermal_T3_IP_T_2024-04-18-15-37-57

STD Global Classification Results
TPR 0.881, FPR 0.216, Precision 0.045, Recall 0.881
tn 100033, fp 27494, fn 173, tp 1285
std_AUROC 0.908

Mean Global Classification Results
TPR 0.911, FPR 0.197, Precision 0.050, Recall 0.911
tn 102467, fp 25060, fn 130, tp 1328
mean_AUROC 0.908

d:\FYP-Human-Fall-Detection\Code\functions.py:250: RuntimeWarning: Mean of empty slice

final_performance_mean = np.nanmean(video_metrics, axis=0) # get the mean performance across all videos
c:\Users\sindh\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,

STD Global Classification Results
TPR 0.867, FPR 0.187, Precision 0.050, Recall 0.867
tn 103648, fp 23889, fn 193, tp 1255
std_AUROC 0.904

Mean Global Classification Results
TPR 0.918, FPR 0.322, Precision 0.031, Recall 0.918
tn 86480, fp 41057, fn 119, tp 1329
mean_AUROC 0.854

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c:\Users\sindh\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\sindh\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 thresholds.
  warnings.warn(
c:\Users\sindh\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
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  var = nanvar(a, axis=axis, dtype=dtype, out=out, ddof=ddof,

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STD Global Classification Results
TPR 0.866, FPR 0.168, Precision 0.056, Recall 0.866
tn 106136, fp 21391, fn 196, tp 1262
std_AUROC 0.922
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Mean Global Classification Results
TPR 0.907, FPR 0.217, Precision 0.046, Recall 0.907
tn 99864, fp 27663, fn 136, tp 1322
mean_AUROC 0.900
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  final_performance_mean = np.nanmean(video_metrics, axis=0) # get the mean performance across all videos
c:\Users\sindh\anaconda3\envs\fyp_base_paper_2\lib\site-packages\numpy\lib\nanfunctions.py:1670: RuntimeWarning: Degrees of freedom <= 0 for slice.
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()

```











