

1. Per-class & global results

-1.1 -1.0 -1.0 -0.8 -0.9

+8.1 +8.1 +5.7 +3.7 +6.1 +2.8 +3.1 +3.2 +1.7 +3.1

Model

MSTCN [13]

+ CB [9] + LA [32]

+ Focal [30]

+ ours(S-NCM)

Breakfast

Acc.

Per class F1@{10,25,50}

+0.6 +0.5 +1.0 -0.6 -0.5 -0.2

78.8 -0.6 -0.2 76.4 -0.2 -0.7

G_F1

57.9

0.0

-0.4

Per class F1@{10,25,50}

Cost-Sensitive Learning for Long-Tailed **Temporal Action Segmentation**



Epoch

Head

Accuracy Fix Head Tail Head

F1@25

85.7 85.3 86.0

84.8 85.1 **87.7**

Tail

72.1 33.9 4.7 26.3 3.9

72.0 71.0 34.8 34.3

73.3 35.3

71.6 75.7 34.0 34.1 Assembly101

Accuracy F1@25 lead Tail Head Ta

6.8 6.4

6.6 4.3 **8.7**

28.1 27.1

26.3 6.4

25.9 31.7 4.2 7.6

Tail

6.0 5.8

Zhanzhong Pang¹, Fadime Sener², Shrinivas Ramasubramanian³, Angela Yao¹ ¹National University of Singapore, ²Meta Reality Labs, ³Carnegie Mellon University



2. Group-wise results

Head

65.1 37.7

64.1 64.4 39.3 40.6

66.1 36.1

65.3 36.2 52.7 37.4

65.3 44.0

Model

MSTCN

+ CB [9] + LA [32]

+ Focal [30]

+ τ -norm [21] + ours(S-NCM)

Assembly101

Acc

8.3

8.3 +1.5 +1.2 +1.4 -0.2

G_F1

27.2

-0.5 -1.1

-0.2

+0.2

Per class F1@{10,25,50}

+3.3

 $\begin{array}{c} \hline 10,25,50 \\ \hline 6.6 & 4.8 \\ +1.7 & +1.2 \\ +1.4 & +1.2 \\ \hline \end{array}$

+0.1

G_F1

-0.4 -0.7

-0.6

+0.1 +4.1

Acc

75.6 -0.3 -0.3 75.9 7.5 +1.8 +2.1

+0.4 +0.2 +0.2+1.9+1.6 +0.5

,50} 67.6 -<mark>0.8</mark> 0.0

Breakfast

Accuracy F1@25 Head Tail Head Ta

53.3 54.1 56.0 53.6

Tail

38.7 87.7 70.0

39.4 38.7 88.4 87.5 69.3 69.6

38.0 88.3 70.3

Head

87.6 87.8 70.3 72.5