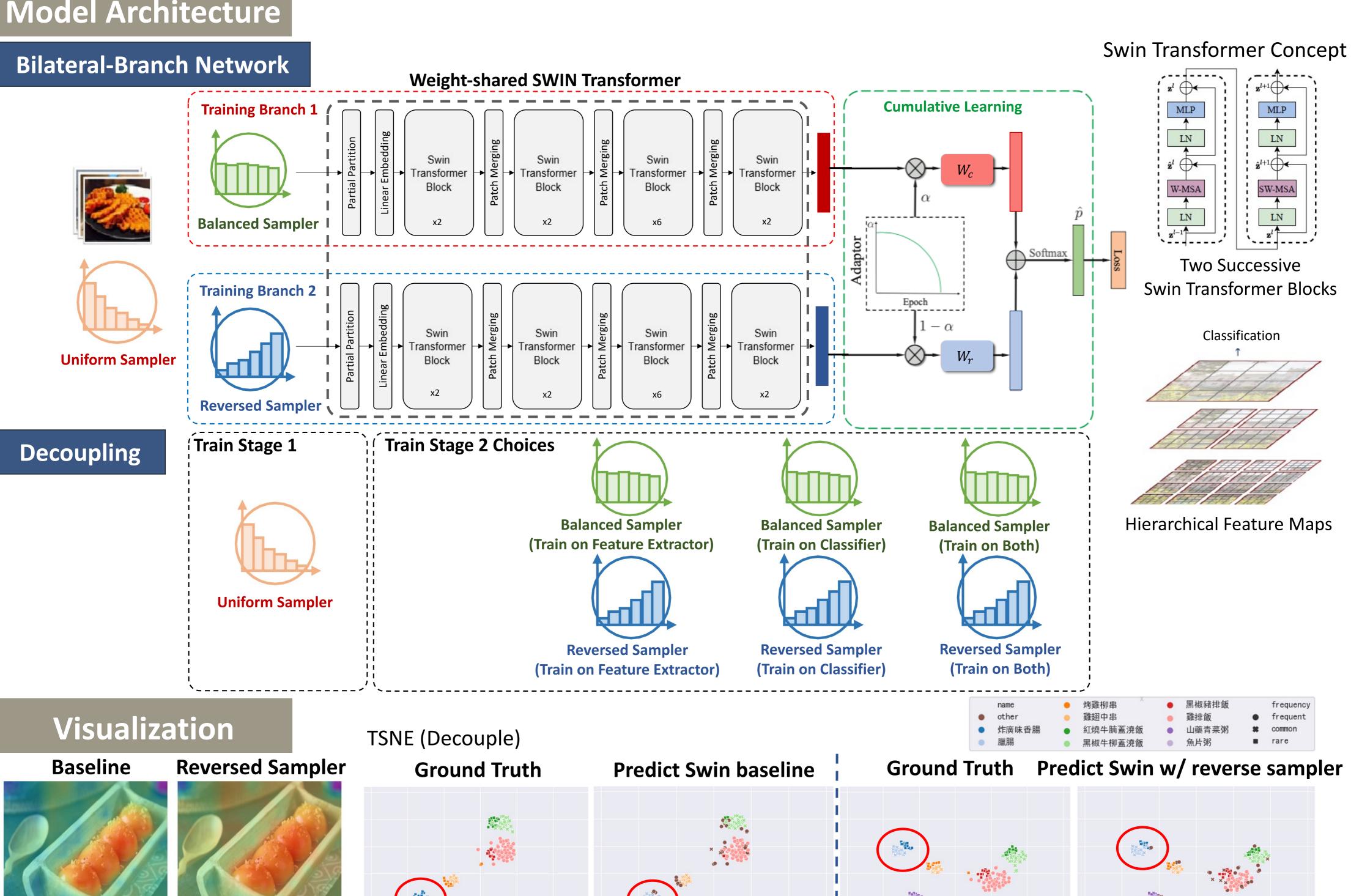
Long Tail Annihilator

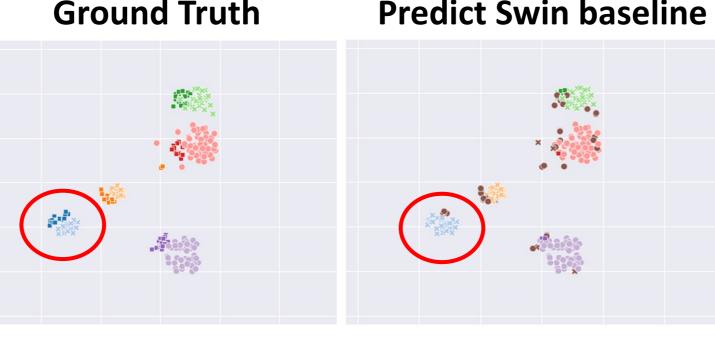
Yi-Hsien Lin D06943006 Hung-Yu Shu R09943021 Cheng-You Tsai R10943014 Chih-Ying Liu B07901039 Pin-Hua Lee B07303024

Model Architecture



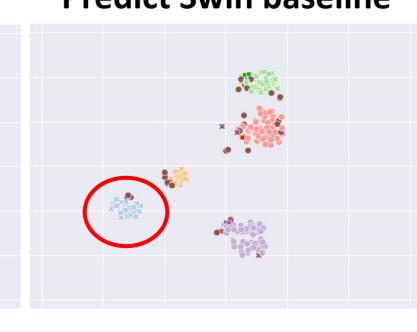


Attention Map (Decouple)



Loss

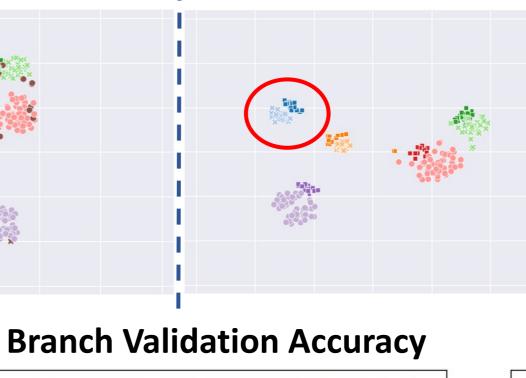
Loss and Accuracy (Bilateral-Branch Network)



0.6

Accuracy 6.0

0.2



Track Validation Accuracy Accuracy 90 0.2 balanced comm reversed rare 10 Epoch

Experiments

Classifier

Backbone	Main	Frequent	Common	Rare
ResNest269	67.53%	86.68%	64.52%	20.46%
EfficientNet-B7	64.99%	82.65%	63.03%	21.79%
ViT	60.56%	83.61%	56.38%	8.34%
Swin Transformer	73.76%	90.68%	72.93%	31.20%

175000

150000

125000

100000

75000

50000

25000

Bilateral-Branch Network

Backbone	Sampler	Main	Frequent	Common	Rare
Uniform	U				
	В				
Balanced	U				

Decoupling

Method	Sampler	Main	Frequent	Common	Rare
Stage 1 Training	В				
	U				
Stage 2 Trained on Feature	В				
	R				
Stage 2 Trained on MLP	В				
	R				
Stage 2 Trained on Both	В				
	R				

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