

# Supplementary Material: Hybrid-Learning Video Moment Retrieval across Multi-Domain Labels

BMVC 2022 Submission # 0231

In this supplementary material, we give additional experimental results of the comparison with the other cross-domain strategy and ablation study of the reverse domain direction by exchanging the source and target datasets, to further explore the effectiveness of our proposed model EVA.

## 1 Comparisons with Different Cross-Domain Strategy

Currently, there is little cross-domain research on the VMR task. We compare our method with one latest paper considering debiased retrieval on cross scenarios [1]. Following the setting in [1], we use the Anet and Charades as the source and target datasets respectively. The results in Table 1 show that EVA performs better on all metrics, displaying EVA’s advantages on cross-modal cross-domain moment retrieval regarding the query sentence.

Method	R@1		R@5	
	IoU=0.5	IoU=0.7	IoU=0.5	IoU=0.7
Debias-TLL [1]	21.45	10.38	62.34	32.90
EVA	<b>39.33</b>	<b>17.28</b>	<b>68.06</b>	<b>34.19</b>

Table 1: Comparisons with other cross-domain strategy.

## 2 Ablation Study: Effects from Anet to TVR

We also conduct experiments on the reverse domain direction by changing the source and target datasets. We use the Anet with temporal labels to benefit the weakly-supervised retrieval on TVR. Table 2 shows that temporal-labelling in Anet also benefits effectively model performance on TVR with weak labels, indicating EVA’s effectiveness and robustness on utilising and exploiting cross-domain different training labels.

Model	Source	Target	IoU=0.1	IoU=0.3	IoU=0.5
WR Branch	✗	✓	39.08	12.47	5.62
EVA	✓	✓	<b>39.93</b>	<b>14.62</b>	<b>6.62</b>

Table 2: Performance results of EVA on training from Anet to TVR.

References

[1] Peijun Bao and Yadong Mu. Learning sample importance for cross-scenario video temporal grounding. *arXiv preprint arXiv:2201.02848*, 2022.

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