



Track 3 Problem Statement



locations within surveillance videos

- (1) Lacks labeled dataset









- feature extractor to **target** domain



[1] R. Girshick et al. "Detectron". https://github.com/facebookresearch/detectron, 2018. [2] E. Bochinski et al. "In defense of the triplet loss for person re-identification." arXiv, 2017. [4] Y. Shen et al. "Learning deep neural networks for vehicle re-id with visual-spatio-temporal path proposals." CVPR, 2017. [4] Y. Shen et al. "Learning deep neural networks for vehicle re-id with visual-spatio-temporal path proposals." CVPR, 2017.

Vehicle Re-Identification with the Space-Time Prior

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I) Effectiveness of AFL Technique Train on Market-1501 Human Re-ID Test on DukeMTMC-ReID Humam Re-ID				 (b) Effectiveness of Multi-Task Training. Test on VeRi vehicle Re-ID dataset (* uses additional temporal information) 			
Method	mAP(%)个	Rank-1(%)个		Method	mAP(%)个	Rank-1(%)个	
w/o AFL	13.46	25.99		SOTA CNN [4]	29.48	41.12	
w/ AFL	14.20	28.50	*SOTA [4]	58.27	83.49		
				Train on VeRi (Ours)	53.35	82.06	
				Train on all (Ours)	57.43	86.29	

c) Multi-Can	nera Mat	ching Re	(d) LeaderBoard of AIC 2018 Trac			
TDR: Track	Detection	Rate		Team ID	S3↑	
PR: Locali	zation Prec	sision		team48	0.7106	
Method	TDR十PK)	PR个	<u></u>	Ours!	team37	0.2861
					team79	0.0785
K-Means	0	0.0006	0.0003		team18	0.0074
Bottom-Up K-Means	0	0.0015	0.0007		team28	0.0026
K-NN	0.1429	0.0020	0.0725		team41	0.0024
Query-	0.5714	0.0007	0.2861		team53	0.0002
Gallery					team6	0.0001

Matching Results

Possibly Correct

Experiment Results

Definitely Incorrect