

Model	K=1
VSE0 [1]	43.0
VSE++ [1]	52.0
VSRN [7]	60.0
TERN (Ours)	51.0

VSE0 [1]	22.0
VSE++ [1]	30.0
VSRN [7]	37.0
TERN (Ours)	28.0

IMAGE RETRIEVAL RESULTS ON MS-COCO TEST SETS, FOR BOTH THE

B. Results and Discussion

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Visual Semantic Reasoning for Image-Text Matching

September 5th, 2019 Kunpeng Li, Yulun Zhang, Kai Li, Yuanyuan Li, Yun Fu

Ontology Of The Paper :

Image Retrieval

Semantics

Semantic Information

Visual Representations

Semantic Gap

Test Samples

Reasoning

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Table 2: Quantitative evaluation results of the image-to-text (caption) retrieval and text-to-image (image) retrieval on MS-COCO 5K test set in terms of Recall@K (R@K).

Methods	Caption Retrieval	Caption Retrieval	Caption Retrieval	Image Retrieval	Image Retrieval	Im
Methods	R@1	R@5	R@10	R@1	R@5	
(R-CNN, AlexNet)	nan	nan	nan	nan	nan	
DVSACVPR'15 [15]	11.8	32.5	45.4	8.9	24.9	
(VGG)	nan	nan	nan	nan	nan	
FVCVPR'15 [20]	17.3	39.0	50.2	10.8	28.3	
VQAECCV'16 [29]	23.5	50.7	63.6	16.7	40.5	
OEMICLR'16 [35]	23.3	-	84.7	31.7	-	
(ResNet)	nan	nan	nan	nan	nan	
VSE++BMVC'18 [5]	41.3	69.2	81.2	30.3	59.1	
GXNCVPR'18 [8]	42.0	-	84.7	31.7	-	
SCOCVPR'18 [14]	42.8	72.3	83.0	33.1	62.9	
(Faster R-CNN, ResNet)	(Faster R-CNN, ResNet)	(Faster R-CNN, ResNet)	nan	nan	nan	
SCANECCV'18 [23]	50.4	82.2	90.0	38.6	69.3	
VSRN (ours)	53.0	81.1	89.4	40.5	70.6	