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Transformer Reasoning Network for Image-Text Matching and Retrieval

April 20th, 2020 Nicola Messina, Fabrizio Falchi, Andrea Esuli, Giuseppe Amato

Paper Categories ★ Computer Vision And Pattern Recognition

Ontology Of Paper ★ Image Retrieval ★ Text Processing ★ Information Retrieval ★ Text Feature ★ Retrieval Performance ★ Matching Methods ★ Matching Algorithm ★ Reasoning

TABLE I: Image retrieval results on the MS-COCO dataset, on 1K and 5K test sets, for both the Recall@K and the introduced NDCG metrics.

nan	Recall@K	Recall@K	Recall@K	NDCG	NDCG
Model	K=1	K=5	K=10	ROUGE-L	SPICE
1K Test Set	1K Test Set	1K Test Set	1K Test Set	1K Test Set	1K Test Set
VSE0 [vsepp2018faghri]	43.7	79.4	89.7	0.702	0.616
VSE++ [vsepp2018faghri]	52.0	84.3	92.0	0.712	0.617
VSRN [li2019]	60.8	88.4	94.1	0.723	0.620
TERN (Ours)	51.9	85.6	93.6	0.725	0.653
5K Test Set	5K Test Set	5K Test Set	5K Test Set	5K Test Set	5K Test Set
VSE0 [vsepp2018faghri]	22.0	50.2	64.2	0.633	0.549
VSE++ [vsepp2018faghri]	30.3	59.4	72.4	0.656	0.577
VSRN [li2019]	37.9	68.5	79.4	0.676	0.596
TERN (Ours)	28.7	59.7	72.7	0.6645	0.600

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Visual Semantic Reasoning for Image-Text Matching

Cited By Current Paper ➤

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

Paper Categories ★ Computer Vision And Pattern Recognition

Ontology Of Paper ★ Image Retrieval ★ Semantics ★ Semantic Information ★ Visual Representations ★ Semantic Gap ★ Test Samples ★ Reasoning

Table 5: Ablation studies on the MS-COCO 1K test set to analyze region ordering for global semantic reasoning. Results are reported in terms of Recall@K (R@K).

Methods	Caption Retrieval	Caption Retrieval	Caption Retrieval	Image Retrieval	Image Retrieval	Image Retrieval
Methods	R@1	R@5	R@10	R@1	R@5	R@10
VSRN-Random	75.1	94.5	98.0	62.3	89.1	94.6
VSRN-BboxSize	75.8	94.9	98.4	62.5	89.5	94.8
VSRN-Confidence	76.2	94.8	98.2	62.8	89.7	95.1

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