

SEOUL NATIONAL UNIV. VISIÓN & LEARNING



Motivation

- Representation of video is more complicated than that of image
- 1. More objects
- 2. More dynamic
- 3. More sentiments
- Existing CNN-RNNs are not enough to catch mid-level semantics in video

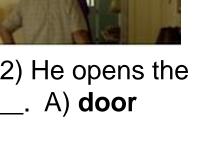
- external sources
- our framework



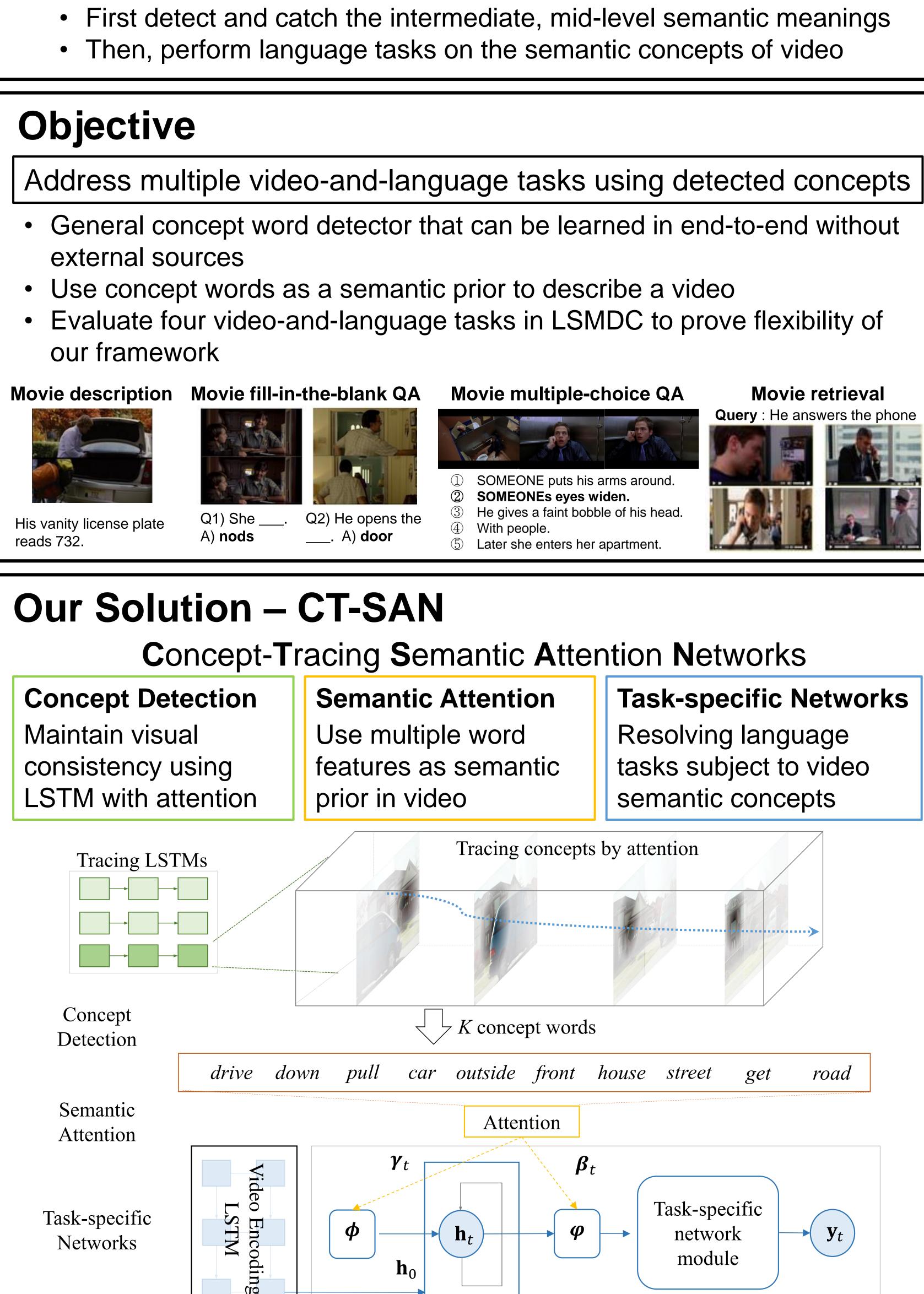


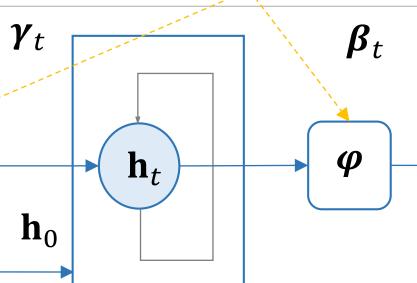
Q1) She _ A) nods

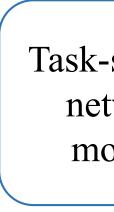




SOMEONE puts his arms around SOMEONEs eyes widen. He gives a faint bobble of his head





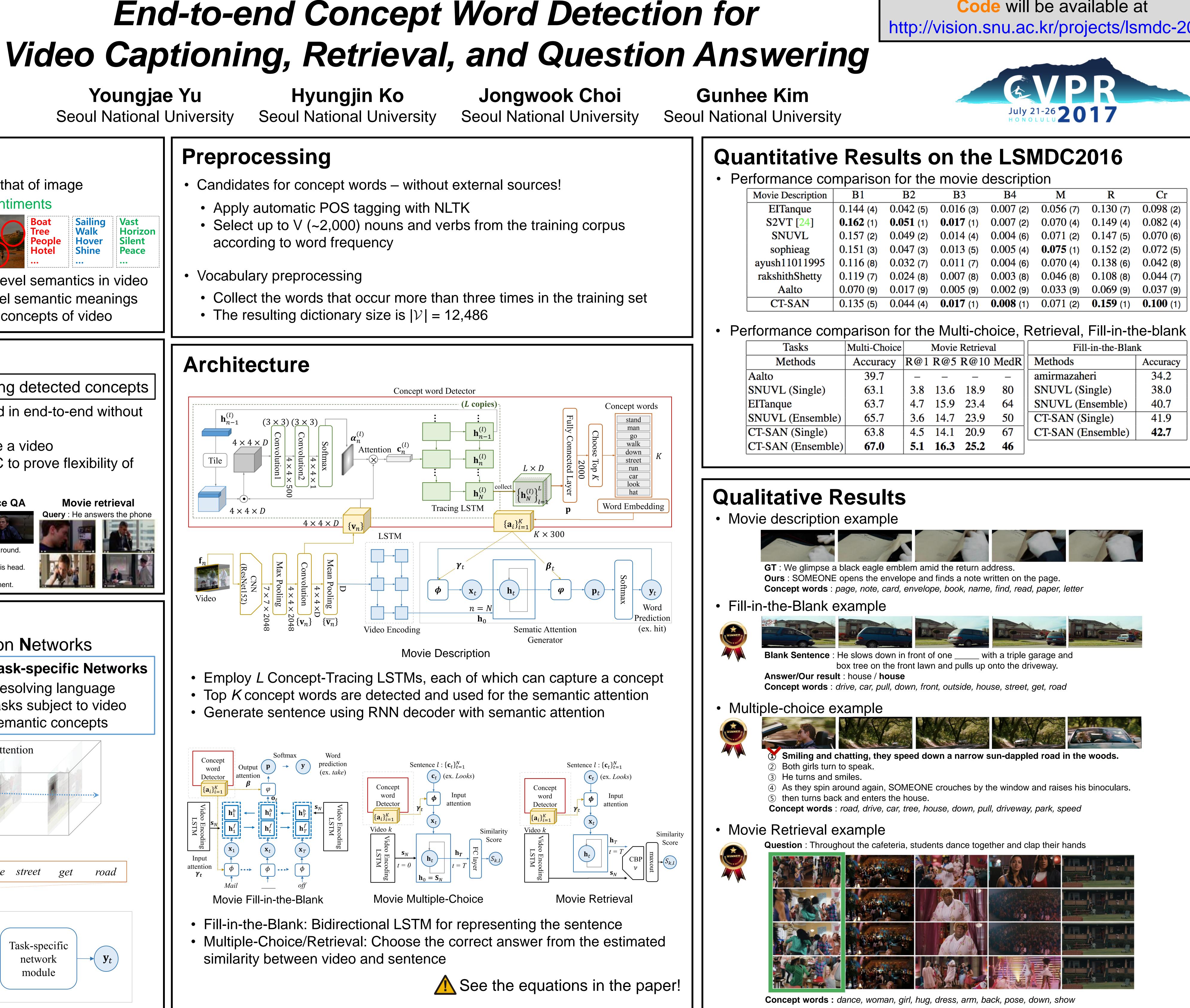


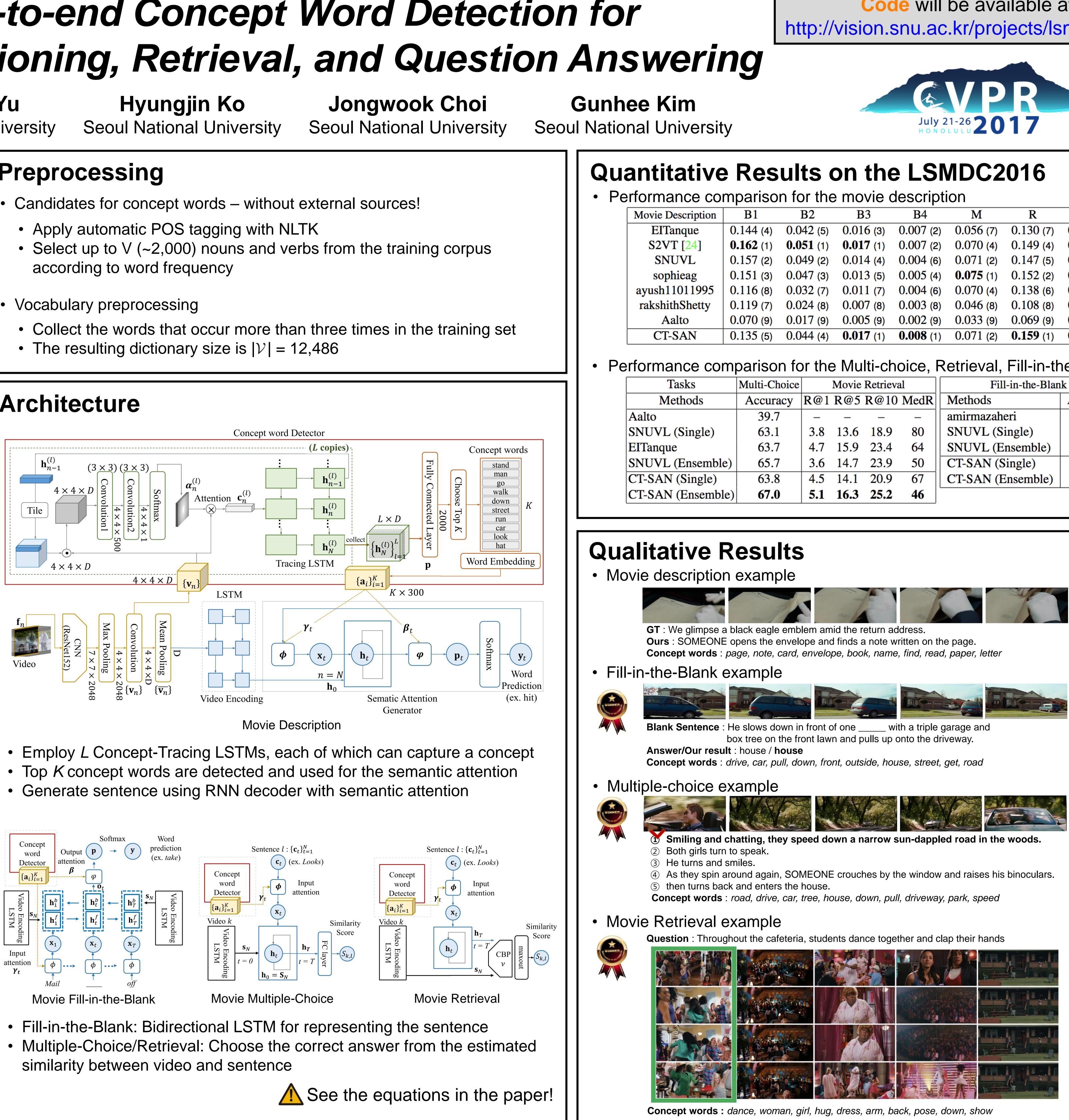
Youngjae Yu Seoul National University

Vast Horizon

Walk Hover

- according to word frequency





Code will be available at http://vision.snu.ac.kr/projects/lsmdc-2016



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B1	B2	B3	B4	Μ	R	Cr
0.144 (4)	0.042 (5)	0.016 (3)	0.007 (2)	0.056 (7)	0.130 (7)	0.098 (2)
0.162 (1)	0.051 (1)	0.017 (1)	0.007 (2)	0.070 (4)	0.149 (4)	0.082 (4)
0.157 (2)	0.049 (2)	0.014 (4)	0.004 (6)	0.071 (2)	0.147 (5)	0.070 (6)
0.151 (3)	0.047 (3)	0.013 (5)	0.005 (4)	0.075 (1)	0.152 (2)	0.072 (5)
0.116 (8)	0.032 (7)	0.011 (7)	0.004 (6)	0.070 (4)	0.138 (6)	0.042 (8)
0.119 (7)	0.024 (8)	0.007 (8)	0.003 (8)	0.046 (8)	0.108 (8)	0.044 (7)
0.070 (9)	0.017 (9)	0.005 (9)	0.002 (9)	0.033 (9)	0.069 (9)	0.037 (9)
0.135 (5)	0.044 (4)	0.017 (1)	0.008 (1)	0.071 (2)	0.159 (1)	0.100 (1)

	Multi-Choice	Choice Movie Retrieval			ıl	Fill-in-the-Blank	
	Accuracy	R@ 1	R@5	R@10	MedR	Methods	Accuracy
	39.7	_	_	_	_	amirmazaheri	34.2
	63.1	3.8	13.6	18.9	80	SNUVL (Single)	38.0
	63.7	4.7	15.9	23.4	64	SNUVL (Ensemble)	40.7
e)	65.7	3.6	14.7	23.9	50	CT-SAN (Single)	41.9
	63.8	4.5	14.1	20.9	67	CT-SAN (Ensemble)	42.7
le)	67.0	5.1	16.3	25.2	46		