

Matching & Ranking and Description Generation Techniques for Video-To-Text

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Generated text

A person is petting a dog



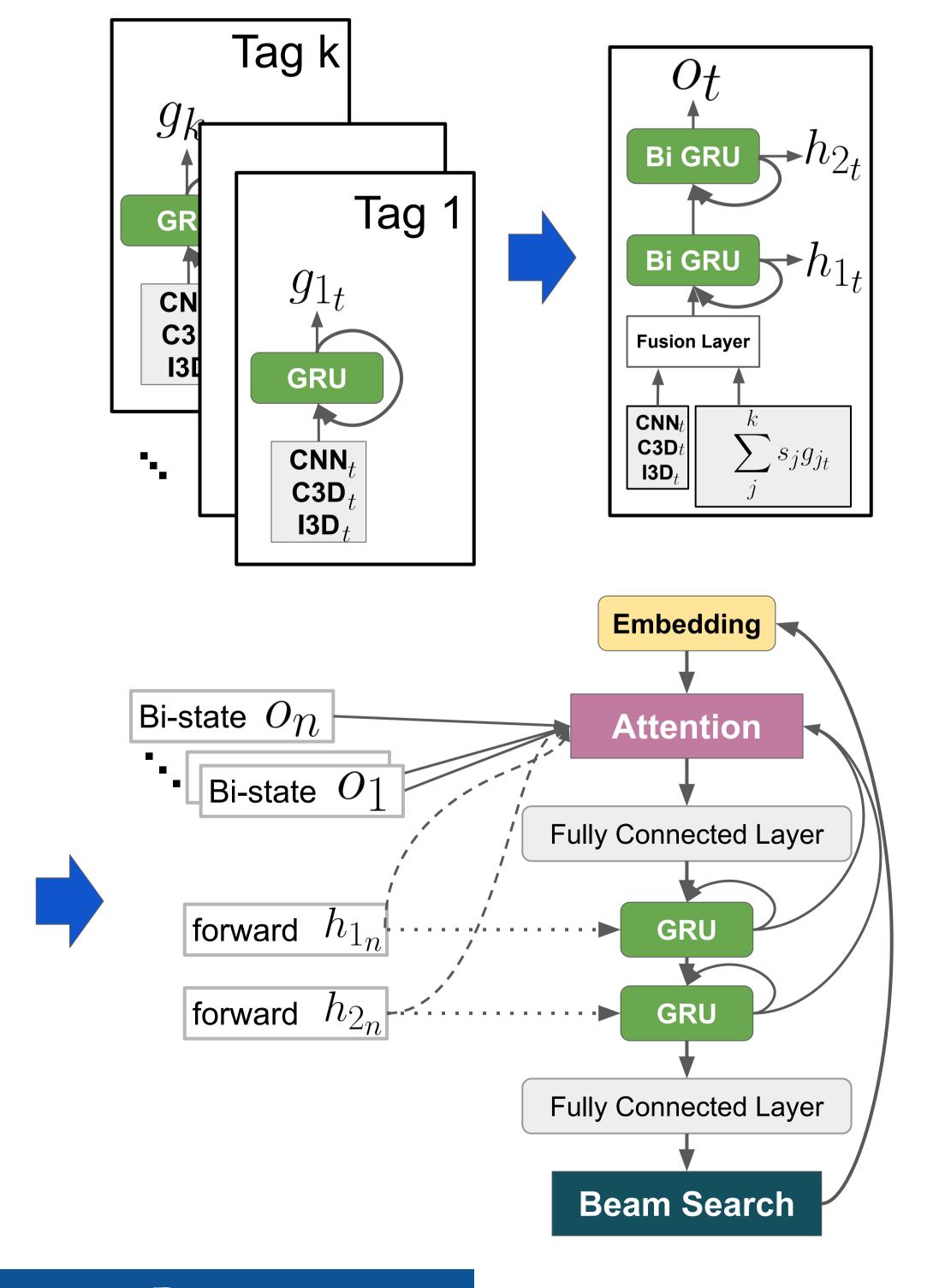
Motivation

Automatic annotation of videos using natural language text descriptions has been a long-standing application of computer vision and natural language processing. It could be useful for video summarization in the form of natural language, facilitating the search and browsing of video archives using such descriptions, describing videos to the visually impaired and Human-Robot interactions



Tasks

Description Generation proposal

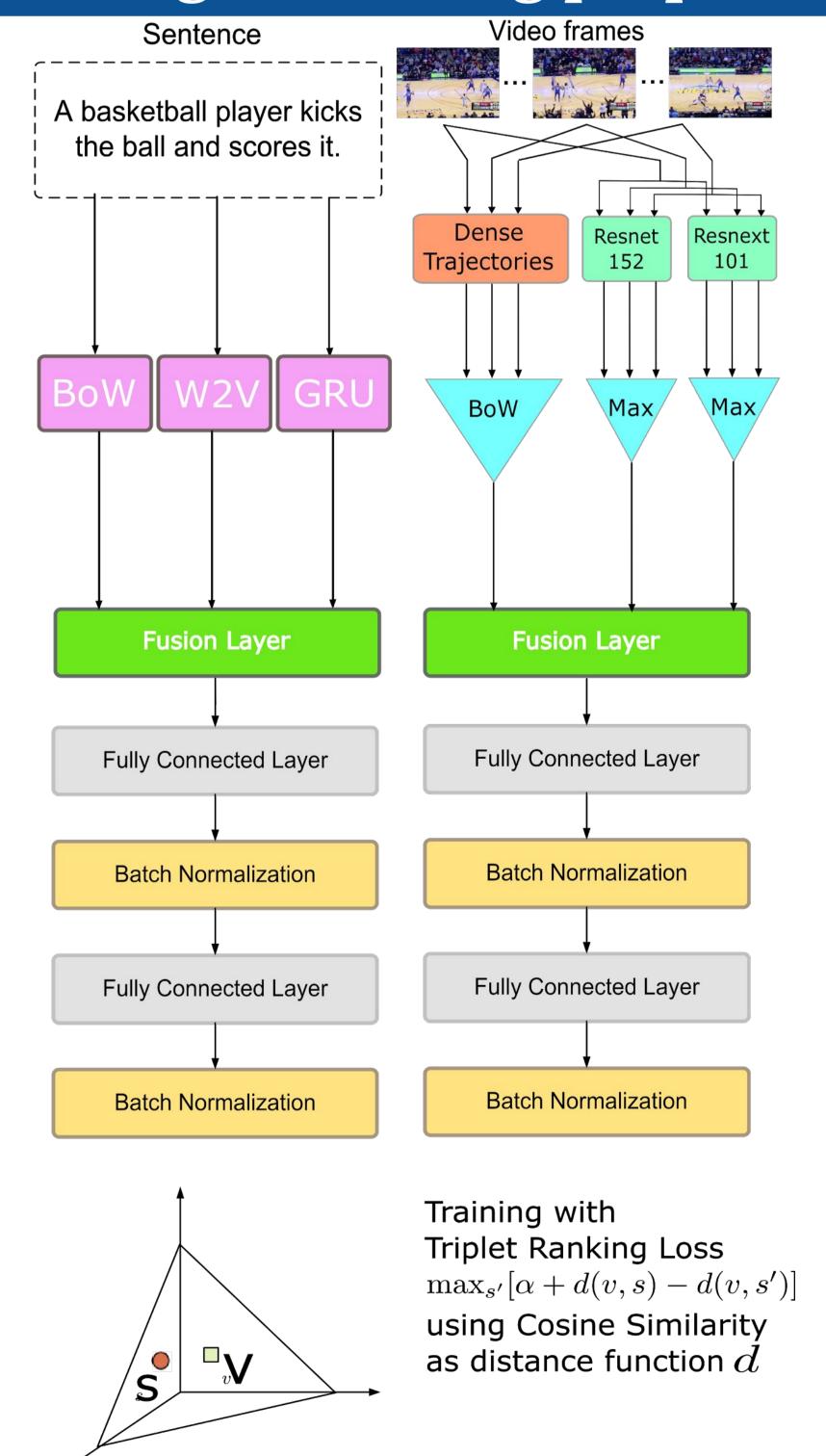


Matching & Ranking proposal

Text 4 - b) A big dog

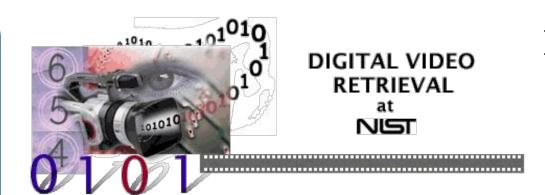
Matching texts

Text 1 - a) Dog and woman:



Datasets

MSVD: 1970 Youtube videos, +70k video-sentence pairs. MSR-VTT: 10k Youtube videos, +150k video-sentence pairs. **TGIF:** 100k Tumbrl GIFs with its corresponding sentence.



Participating in NIST TRECVID 2019, in conjunction with ORAND S.A.