RMLVQA: A Margin Loss Approach for Visual Question Answering with Language Biases

Abhipsa Basu, Sravanti Addepalli, R.Venkatesh Babu Vision & Al Lab, Indian Institute of Science, Bangalore, India

- and the model predictions.

domain VQA-v2 validation set.



(a)
$$f_i = W_i^T x$$
 (b) $\hat{W}_i = \frac{W_i}{\|W_i\|}$ (c) $\hat{x} = s \frac{x}{\|x\|}$
(d) $\hat{f}_i = \hat{W}_i^T \hat{x} = \|\hat{W}_i\| \|\hat{x}\| \cos \theta_i$
(e) $L_{ns} = \sum_{i=1}^{|\mathcal{A}|} - a_i \log \frac{\exp(s \cos \theta_i)}{\sum_{j=1}^{|\mathcal{A}|} \exp(s \cos \theta_j)}$ $a_i \in \{0, 1\}$ - one hold





