Heuristic based approach SECTION OF THE PROPERTY OF THE

Heuristic: Replace a word with its translation in other language with some probability



Better bilingual embeddings obtained on additional training on this artificially code-switched data

Heuristic 2: $sw(w_t \mid lang(w_{t-1}) = L_1) \sim$ Bernoulli (p₁) $sw(w_t \mid lang(w_{t-1}) = L_2) \sim$ Bernoulli (p₂)

Long monolingual stretches less probable



[3] Wick et. al. Multilingual Embeddings via Aritificial CS, 2016

Heuristic based approach

Heuristic: Replace a word with its translation in other language with some probability

Better bilingual embeddings obtained on additional training on this artificially code-switched data

Heuristic 13:

 $sw(w_t) \sim Bernoulli(p)$

Long monolingual stretches less probable

Heuristic 2:

$$sw(w_t | lang(w_{t-1}) = L_1) \sim$$
 $Bernoulli (p_1)$
 $sw(w_t | lang(w_{t-1}) = L_2) \sim$
 $Bernoulli (p_2)$

Heuristic based approach