

# Bleu Score \*CORRECTION\*

Correction in "Bleu Score" (14:21):

## Bleu details

$p_n$  = Bleu score on n-grams only

$p_1, p_2, p_3, p_4$

Combined Bleu score:  $BP \exp\left(\frac{1}{4} \sum_{n=1}^4 p_n\right)$

$BP$  = brevity penalty

$$BP = \begin{cases} 1 & \text{if } \text{MT\_output\_length} > \text{reference\_output\_length} \\ \exp(1 - \text{MT\_output\_length}/\text{reference\_output\_length}) & \text{otherwise} \\ \exp(1 - \text{reference\_output\_length}/\text{MT\_output\_length}) & \end{cases}$$

[Papineni et. al., 2002. Bleu: A method for automatic evaluation of machine translation]

Andrew Ng