supported each other in international affairs

We examine three stopping points, the most similar distributions ($L_t$)

\[
d(t_1, t_2) = \sum_{s \in S} |P(x|s_{t_1}) - P(x|s_{t_2})|
\]

Reduced Ambiguity

- 15.7% fewer rule types extracted, but same reordering patterns covered
- Rule pattern
  \[ X \rightarrow [X' \text{ of } X'] \text{::}[\text{the } X' \text{ of } X'] \]
  goes from 1330 to 63 labeled variants

Results

- +1.1 to +1.5 BLEU over SAMT
- +0.0 to +0.6 BLEU over Hiero
- Significantly better than both on MT 2008 according to BLEU, METEOR, and TER

Experiments

- FBIS Chinese–English corpus
- Tune on NIST MT 2006; test on NIST MT 2003 and 2008

Label Collapsing

- Represent each target label as a distribution over source labels
- Iteratively combine pair of labels with the most similar distributions ($L_t$)
- We examine three stopping points, plus SAMT and Hiero baselines

Analysis

Reduced Ambiguity

- 15.7% fewer rule types extracted, but same reordering patterns covered
- Rule pattern
  \[ X \rightarrow [X' \text{ of } X'] \text{::}[\text{the } X' \text{ of } X'] \]
  goes from 1330 to 63 labeled variants

Reduced Sparsity

- Fraction of label types seen <100 times drops from 47% to 26%
- More syntactic rules used in output than in both SAMT and Hiero