

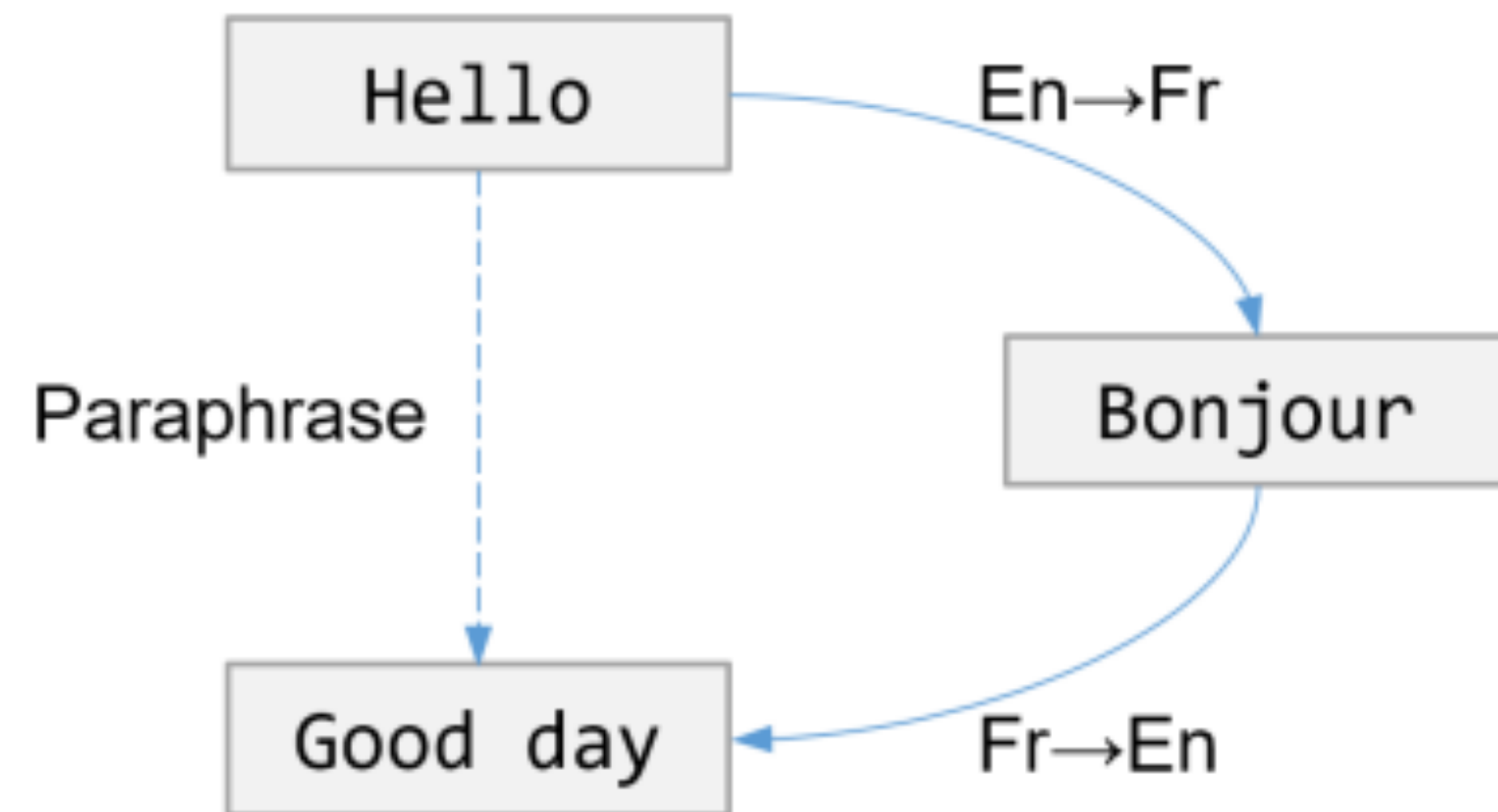
Zero-Shot Paraphrase Generation with Multilingual Language Models

Yinpeng Guo, Yi Liao, Xin Jiang, Qing Zhang, Yibo Zhang, Qun Liu (2019)

Hyungjin Kim

Traditional paraphrase generation

round-trip translation

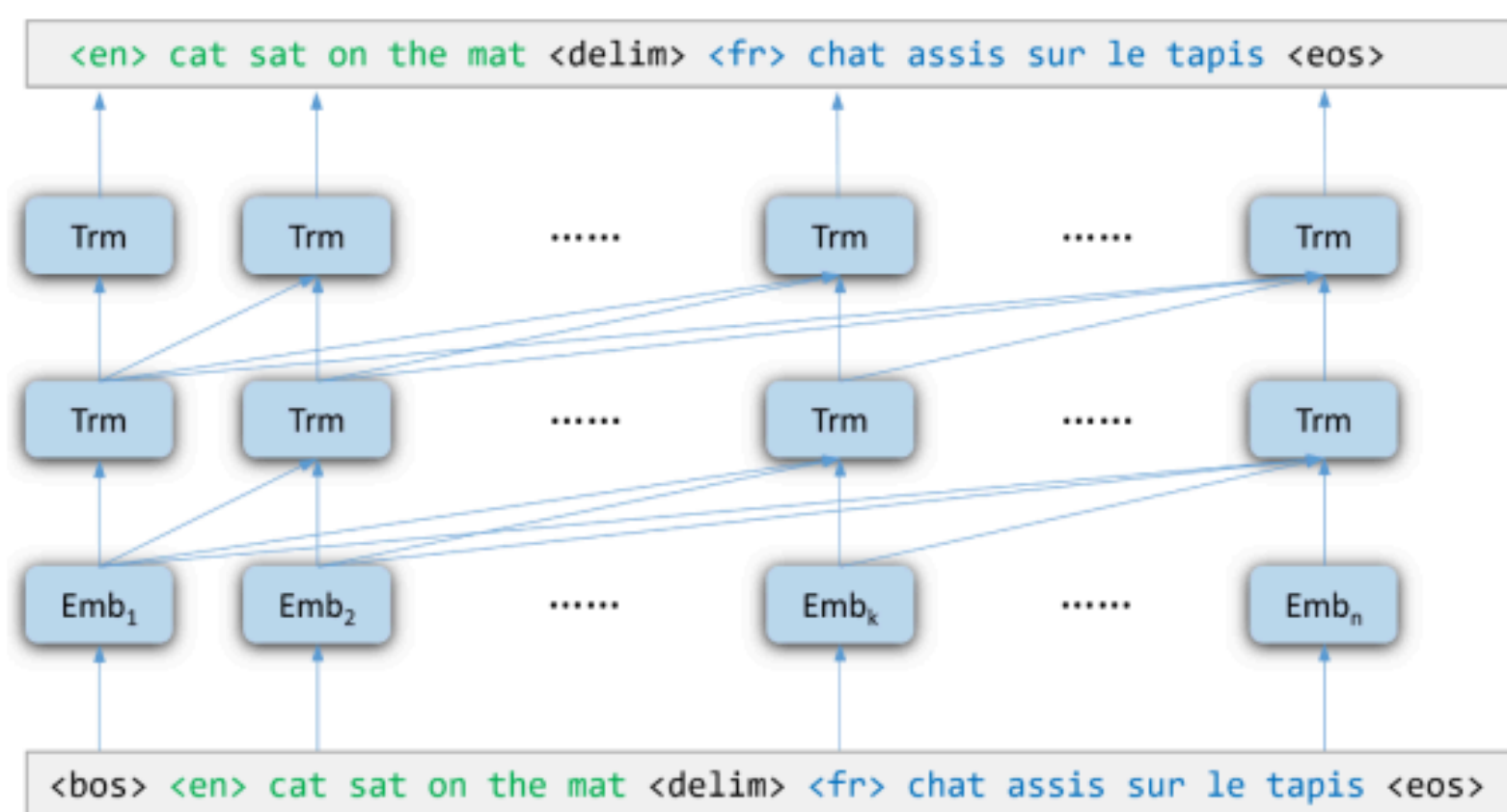


Pivoting over a translation
in another language

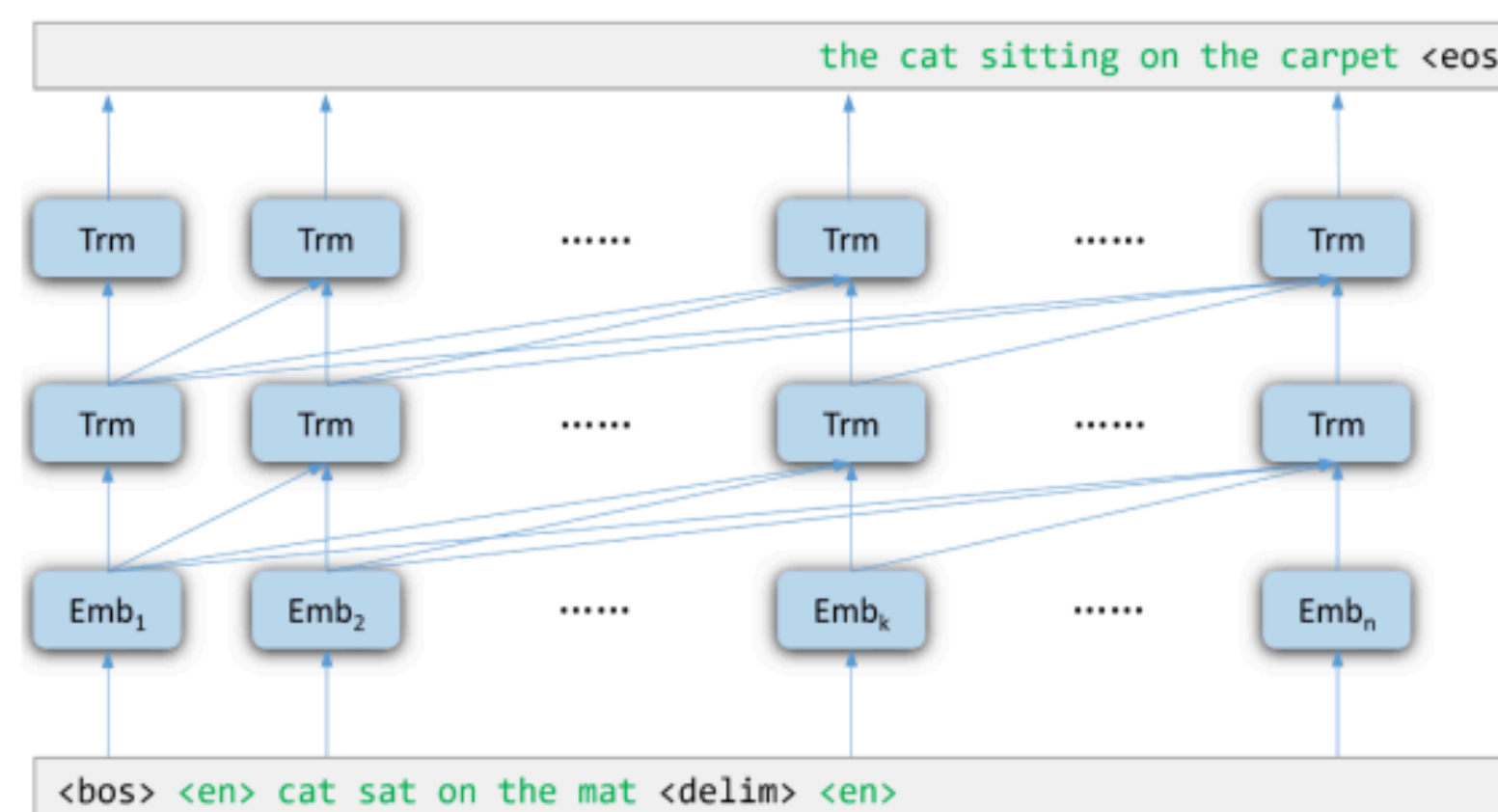
input -> foreign -> input language

Methodology

Logics behind model



(a) Multilingual Language Model Training.



(b) Zero-Shot Paraphrase Generation.

Figure 2: Paraphrase generation via multilingual language model training.

Evaluation

Human Evaluation

Table 3: Human evaluation results.

Model	Relevance	Fluency	Agreement
Round-trip	2.72	3.61	0.36
Multilingual (ours)	3.43	3.75	0.35

Relatively huge gaps in Relevance & Fluency

Reference

Zero-Shot Paraphrase Generation with Multilingual Language Models (2019),
Yinpeng Guo, Yi Liao, Xin Jiang, Qing Zhang, Yibo Zhang, Qun Liu

<https://arxiv.org/abs/1911.03597>

Thank you 💖