

## Matjaž Zupančič Muc, Marko Novak, and Klemen Laznik

[illegible]

Sentence paraphrasing,

Paraphrasing plays an important role in language understanding tasks, such as question answering, machine translation and semantic parsing. Additionally, it serves as a useful method for data augmentation. The goal of paraphrase generation is to produce alternative versions of a given sentence that may feature different phrasing or structure, yet still accurately convey the original meaning. Creating high-quality paraphrases is a challenging problem in natural language processing (NLP), as it requires a deep understanding of the underlying semantics and syntax of the input sentence. In recent years, there has been a growing interest in using machine learning techniques, particularly transformer models, to automatically generate paraphrases.

have a higher adequacy and fluency level, while paraphrases generated by pivot languages that are not closely related have higher diversity. They conclude that NMT based paraphrase generation is cheap and diverse, although NMTs produce less fluent outputs post editing could be used to improve the quality with little additional expenditure.

[TODO: Add at least 2 other references;]

Placeholder for third reference [2]

[TODO: Initial Ideas; Matjaz: We have to talk about this !]

## Discussion

## Acknowledgments

## References

- [1] Christian Federmann, Oussama Elachqar, and Chris Quirk. Multilingual whispers: Generating paraphrases with translation. In *Proceedings of the 5th Workshop on Noisy User-generated Text (W-NUT 2019)*, pages 17–26, Hong Kong, China, November 2019. Association for Computational Linguistics.
- [2] Lingfeng Shen, Lemao Liu, Haiyun Jiang, and Shuming Shi. On the evaluation metrics for paraphrase generation, 2022.