

# Semantics of Empire: A Neural Machine Translation Approach for Ottoman Turkish Texts

## References

- Mikel Artetxe and Holger Schwenk. 2019. Massively multilingual sentence embeddings for zero-shot cross-lingual transfer and beyond. *Transactions of the Association for Computational Linguistics*, 7:597–610.
- Sudhansu Bala Das, Atharv Biradar, Tapas Kumar Mishra, and Bidyut Kr. Patra. 2023. Improving multilingual neural machine translation system for indic languages. *ACM Trans. Asian Low-Resour. Lang. Inf. Process.*, 22(6).
- Peter de Bolla. 2023. *Explorations in the Digital History of Ideas: New Methods and Computational Approaches*. Cambridge University Press, Cambridge.
- Peter F. Brown, John Cocke, Stephen A. Della Pietra, Vincent J. Della Pietra, Fredrick Jelinek, John D. Lafferty, Robert L. Mercer, and Paul S. Roossin. 1990. A statistical approach to machine translation. *Computational Linguistics*, 16(2):79–85.
- Yu Chen and Tania Avgustinova. 2021. Are language-agnostic sentence representations actually language-agnostic? In *Proceedings of the International Conference on Recent Advances in Natural Language Processing (RANLP 2021)*, pages 274–280, Held Online. INCOMA Ltd.
- Everlyn Chimoto and Bruce Bassett. 2022. Very low resource sentence alignment: Luhya and Swahili. In *Proceedings of the Fifth Workshop on Technologies for Machine Translation of Low-Resource Languages (LoResMT 2022)*, pages 1–8, Gyeongju, Republic of Korea. Association for Computational Linguistics.
- Moussa Koulako Bala Doumbouya, Baba Mamadi Diané, Solo Farabado Cissé, Djibrila Diané, Abdoulaye Sow, Séré Moussa Doumbouya, Daouda Bangoura, Fodé Moriba Bayo, Ibrahima Sory 2. Condé, Kalo Mory Diané, Chris Piech, and Christopher Manning. 2023. Machine translation for nko: Tools, corpora and baseline results.
- Maxim Enis and Andrew Megalaa. Ancient voices, modern technology: Low-resource neural machine translation for coptic texts. In *Coptic Translator*, pages 1–15.
- Fangxiaoyu Feng, Yinfei Yang, Daniel Cer, Naveen Arivazhagan, and Wei Wang. 2022. Language-agnostic BERT sentence embedding. In *Proceedings of the 60th Annual Meeting of the Association for Computational Linguistics (Volume 1: Long Papers)*, pages 878–891, Dublin, Ireland. Association for Computational Linguistics.
- Munkova Dasa Munk Michal Forgac, Frantisek and Livia Kelebercova<sup>1</sup>. 2023. Evaluating automatic sentence alignment approaches on English-Slovak sentences. *Scientific Reports*, 13(1).
- William A. Gale and Kenneth W. Church. 1991. A program for aligning sentences in bilingual corpora. In *Proceedings of the 29th Annual Meeting on Association for Computational Linguistics*, ACL ’91, page 177–184, USA. Association for Computational Linguistics.
- Jo Guldi. 2023. *The Dangerous Art of Text Mining: A Methodology for Digital History*. Cambridge University Press, Cambridge.
- Eun S. Jo. 2020. *Foreign Relations of the United States Series, 1860-1980: A Study in New Archival History*. Ph.D. thesis, ProQuest Dissertations and Theses. Copyright - Database copyright ProQuest LLC; ProQuest does not claim copyright in the individual underlying works; Last updated - 2023-06-21.
- Zhaocong Li, Xuebo Liu, Derek F. Wong, Lidia S. Chao, and Min Zhang. 2022. ConsistTL: Modeling consistency in transfer learning for low-resource neural machine translation. In *Proceedings of the 2022 Conference on Empirical Methods in Natural Language Processing*, pages 8383–8394, Abu Dhabi, United Arab Emirates. Association for Computational Linguistics.

- Lei Liu and Min Zhu. 2022. Bertalign: Improved word embedding-based sentence alignment for Chinese–English parallel corpora of literary texts. *Digital Scholarship in the Humanities*, 38(2):621–634.
- Shudong Liu, Xuebo Liu, Derek F. Wong, Zhaocong Li, Wenxiang Jiao, Lidia S. Chao, and Min Zhang. 2023. kNN-TL: k-nearest-neighbor transfer learning for low-resource neural machine translation. In *Proceedings of the 61st Annual Meeting of the Association for Computational Linguistics (Volume 1: Long Papers)*, pages 1878–1891, Toronto, Canada. Association for Computational Linguistics.
- Minh-Thang Luong and Christopher Manning. 2015. Stanford neural machine translation systems for spoken language domains. In *Proceedings of the 12th International Workshop on Spoken Language Translation: Evaluation Campaign*, pages 76–79, Da Nang, Vietnam.
- Eva Martínez García and Álvaro García Tejedor. 2020. Latin-Spanish neural machine translation: from the Bible to saint augustine. In *Proceedings of LT4HALA 2020 - 1st Workshop on Language Technologies for Historical and Ancient Languages*, pages 94–99, Marseille, France. European Language Resources Association (ELRA).
- Kishore Papineni, Salim Roukos, Todd Ward, and Wei-Jing Zhu. 2002. Bleu: a method for automatic evaluation of machine translation. In *Proceedings of the 40th Annual Meeting of the Association for Computational Linguistics*, pages 311–318, Philadelphia, Pennsylvania, USA. Association for Computational Linguistics.
- Maja Popović. 2015. chrF: character n-gram F-score for automatic MT evaluation. In *Proceedings of the Tenth Workshop on Statistical Machine Translation*, pages 392–395, Lisbon, Portugal. Association for Computational Linguistics.
- Fahimeh Saleh, Wray Buntine, Gholamreza Haffari, and Lan Du. 2021. Multilingual neural machine translation: Can linguistic hierarchies help? In *Findings of the Association for Computational Linguistics: EMNLP 2021*, pages 1313–1330, Punta Cana, Dominican Republic. Association for Computational Linguistics.
- Rico Sennrich and Martin Volk. 2011. Iterative, MT-based sentence alignment of parallel texts. In *Proceedings of the 18th Nordic Conference of Computational Linguistics (NODALIDA 2011)*, pages 175–182, Riga, Latvia. Northern European Association for Language Technology (NEALT).
- Steinthor Steingrímsson, Hrafn Loftsson, and Andy Way. 2023. SentAlign: Accurate and scalable sentence alignment. In *Proceedings of the 2023 Conference on Empirical Methods in Natural Language Processing: System Demonstrations*, pages 256–263, Singapore. Association for Computational Linguistics.
- Brian Thompson and Philipp Koehn. 2019. Vecalign: Improved sentence alignment in linear time and space. In *Proceedings of the 2019 Conference on Empirical Methods in Natural Language Processing and the 9th International Joint Conference on Natural Language Processing (EMNLP-IJCNLP)*, pages 1342–1348, Hong Kong, China. Association for Computational Linguistics.
- Jörg Tiedemann. 2020. The tatoeba translation challenge – realistic data sets for low resource and multilingual MT. In *Proceedings of the Fifth Conference on Machine Translation*, pages 1174–1182, Online. Association for Computational Linguistics.
- Dániel Varga, Péter Halácsy, András Kornai, Viktor Nagy, László Nagy, László Németh, and Viktor Tron. 2005. Parallel corpora for medium density languages. In *Proceedings of the International Conference on Recent Advances in Natural Language Processing (RANLP 2005)*, pages 590–596, Borovets, Bulgaria. INCOMA Ltd.
- Rui Wang, Andrew Finch, Masao Utiyama, and Eiichiro Sumita. 2017. Sentence embedding for neural machine translation domain adaptation. In *Proceedings of the 55th Annual Meeting of the Association for Computational Linguistics (Volume 2: Short Papers)*, pages 560–566, Vancouver, Canada. Association for Computational Linguistics.
- Yong Xu, Aurélien Max, and François Yvon. 2015. Sentence alignment for literary texts: The state-of-the-art and beyond. *Linguistic Issues in Language Technology*, 12.

Barret Zoph, Deniz Yuret, Jonathan May, and Kevin Knight. 2016. Transfer learning for low-resource neural machine translation. In *Proceedings of the 2016 Conference on Empirical Methods in Natural Language Processing*, pages 1568–1575, Austin, Texas. Association for Computational Linguistics.