## References

- [1] M. Snover, B. Dorr, R. Schwartz, L. Micciulla, and J. Makhoul, "A study of Translation Edit Rate with Targeted Human Annotation," in *Proceedings of Association for Machine Translation in the Americas*, 2006, pp. 223–231.
- [2] Y. Zhang, R. Zens, and H. Ney, "Chunk-Level Reordering of Source Language Sentences with Automatically Learned Rules for Statistical Machine Translation," in *Proceedings of the NAACL-HLT 2007/AMTA Workshop on Syntax and Structure in Statistical Translation*. Association for Computational Linguistics, 2007, pp. 1–8.
- [3] J. M. Crego and N. Habash, "Using Shallow Syntax Information to Improve Word Alignment and Reordering for SMT," in *Proceedings of the Third Workshop on Statistical Machine Translation*. Association for Computational Linguistics, 2008, pp. 53–61.
- [4] N. Habash, "Syntactic Preprocessing for Statistical Machine Translation," MT Summit XI, pp. 215–222, 2007.
- [5] M. Collins, P. Koehn, and I. Kučerová, "Clause Restructuring for Statistical Machine Translation," in *Proceedings of the 43rd annual meeting on association for computational linguistics*. Association for Computational Linguistics, 2005, pp. 531–540.
- [6] M. Popovic and H. Ney, "POS-Based Word Reorderings for Statistical Machine Translation," in *International Conference on Language Resources and Evaluation*, 2006, pp. 1278–1283.
- [7] A. Birch, "Reordering Metrics for Statistical Machine Translation," 2011.
- [8] K. Papineni, S. Roukos, T. Ward, and W.-J. Zhu, "BLEU: a Method for Automatic Evaluation of Machine Translation," in *Proceedings of the 40th* annual meeting on association for computational linguistics. Association for Computational Linguistics, 2002, pp. 311–318.
- [9] B. Santorini, "Part-of-Speech Tagging Guidelines for the Penn Treebank Project (3rd revision)," 1990.
- [10] M.-C. De Marneffe, B. MacCartney, C. D. Manning, et al., "Generating Typed Dependency Parses from Phrase Structure Parses," in *Proceedings* of *LREC*, vol. 6, 2006, pp. 449–454.
- [11] M. P. Marcus, M. A. Marcinkiewicz, and B. Santorini, "Building a Large Annotated Corpus of English: The Penn Treebank," *Computational lin*guistics, vol. 19, no. 2, pp. 313–330, 1993.
- [12] P. Koehn, A. Axelrod, A. Birch, C. Callison-Burch, M. Osborne, D. Talbot, and M. White, "Edinburgh System Description for the 2005 IWSLT Speech Translation Evaluation," in *IWSLT*, 2005, pp. 68–75.
- [13] C. Tillmann, "A Unigram Orientation Model for Statistical Machine Translation," in *Proceedings of HLT-NAACL 2004: Short Papers*. Association for Computational Linguistics, 2004, pp. 101–104.

- [14] U. Lerner and S. Petrov, "Source-Side Classifier Preordering for Machine Translation," in *Proceedings of the 2014 Conference on Empirical Methods in Natural Language Processing (EMNLP '13)*, 2013.
- [15] K. Rottmann and S. Vogel, "Word Reordering in Statistical Machine Translation with a POS-Based Distortion Model," 2007.
- [16] J. Niehues and M. Kolss, "A POS-Based Model for Long-Range Reorderings in SMT," in *Proceedings of the Fourth Workshop on Statistical Machine Translation*. Athens, Greece: Association for Computational Linguistics, 2009, pp. 206–214.
- [17] T. Herrmann, J. Weiner, J. Niehues, and A. Waibel, "Analyzing the Potential of Source Sentence Reordering in Statistical Machine Translation," 2013.
- [18] T. Herrmann, J. Niehues, and A. Waibel, "Combining Word Reordering Methods on Different Linguistic Abstraction Levels for Statistical Machine Translation," in Proceedings of the Seventh Workshop on Syntax, Semantics and Structure in Statistical Translation. Atlanta, Georgia: Association for Computational Linguistics, June 2013, pp. 39–47. [Online]. Available: http://www.aclweb.org/anthology/W13-0805
- [19] A. Birch, M. Osborne, and P. Blunsom, "Metrics for MT Evaluation: Evaluating Reordering," *Machine Translation*, vol. 24, no. 1, Mar. 2010. [Online]. Available: http://dx.doi.org/10.1007/s10590-009-9066-5
- [20] D. Chiang, "Hierarchical Phrase-Based Translation," computational linguistics, vol. 33, no. 2, pp. 201–228, 2007.
- [21] P. Koehn, Statistical Machine Translation, 1st ed. New York, NY, USA: Cambridge University Press, 2010.
- [22] C. Wang, M. Collins, and P. Koehn, "Chinese Syntactic Reordering for Statistical Machine Translation," in *EMNLP-CoNLL*. Citeseer, 2007, pp. 737–745.
- [23] P. Blunsom, E. Grefenstette, N. Kalchbrenner, et al., "A Convolutional Neural Network for Modelling Sentences," in Proceedings of the 52nd Annual Meeting of the Association for Computational Linguistics. Proceedings of the 52nd Annual Meeting of the Association for Computational Linguistics, 2014.
- [24] T. Mikolov, K. Chen, G. Corrado, and J. Dean, "Efficient Estimation of Word Representations in Vector Space," arXiv preprint arXiv:1301.3781, 2013.