

- Kenton Lee, and Luke Zettlemoyer. 2018. Deep contextualized word representations. In *Proceedings of NAACL-HLT*, pages 2227–2237.
- Pilehvar, Mohammad Taher, Dimitri Kartsaklis, Victor Prokhorov, and Nigel Collier. 2018. Card-660: Cambridge rare word dataset - a reliable benchmark for infrequent word representation models. In *Proceedings of EMNLP*, pages 1391–1401.
- Pires, Telmo, Eva Schlinger, and Dan Garrette. 2019. How multilingual is multilingual BERT? In *Proceedings of ACL*, pages 4996–5001.
- Ponti, Edoardo Maria, Helen O’Horan, Yevgeni Berzak, Ivan Vulić, Roi Reichart, Thierry Poibeau, Ekaterina Shutova, and Anna Korhonen. 2019a. Modeling language variation and universals: A survey on typological linguistics for natural language processing. *Computational Linguistics*, 45(3):559–601.
- Ponti, Edoardo Maria, Roi Reichart, Anna Korhonen, and Ivan Vulić. 2018a. Isomorphic transfer of syntactic structures in cross-lingual nlp. In *Proceedings of ACL*, pages 1531–1542.
- Ponti, Edoardo Maria, Ivan Vulić, Ryan Cotterell, Roi Reichart, and Anna Korhonen. 2019b. Towards zero-shot language modeling. In *Proceedings of EMNLP-IJCNLP*, pages 2893–2903.
- Ponti, Edoardo Maria, Ivan Vulić, Goran Glavaš, Nikola Mrkšić, and Anna Korhonen. 2018b. Adversarial propagation and zero-shot cross-lingual transfer of word vector specialization. In *Proceedings of EMNLP*, pages 282–293.
- Ponti, Edoardo Maria, Ivan Vulić, Goran Glavaš, Roi Reichart, and Anna Korhonen. 2019c. Cross-lingual semantic specialization via lexical relation induction. In *Proceedings of EMNLP*, pages 2206–2217.
- Radovanović, Miloš, Alexandros Nanopoulos, and Mirjana Ivanović. 2010. Hubs in space: Popular nearest neighbors in high-dimensional data. *Journal of Machine Learning Research*, 11:2487–2531.
- Rasooli, Mohammad Sadegh and Michael Collins. 2017. Cross-lingual syntactic transfer with limited resources. *Transactions of the ACL*, 5:279–293.
- Ren, Liliang, Kaige Xie, Lu Chen, and Kai Yu. 2018. Towards universal dialogue state tracking. In *Proceedings of EMNLP*, pages 2780–2786.
- Rotman, Guy and Roi Reichart. 2019. Deep contextualized self-training for low resource dependency parsing. *Transactions of the ACL*, 7:695–713.
- Ruder, Sebastian, Anders Søgaard, and Ivan Vulić. 2019. Unsupervised cross-lingual representation learning. In *Proceedings of ACL: Tutorial Abstracts*, pages 31–38.
- Ruder, Sebastian, Ivan Vulić, and Anders Søgaard. 2019. A survey of cross-lingual embedding models. *Journal of Artificial Intelligence Research*, 65:569–631.
- Rzymski, Christoph, Tiago Tresoldi, Simon J Greenhill, Mei-Shin Wu, Nathanael E Schweikhard, Maria Koptjevska-Tamm, Volker Gast, Timotheus A Bodt, Abbie Hantgan, Gereon A Kaiping, et al. 2020. The database of cross-linguistic colexifications, reproducible analysis of cross-linguistic polysemies. *Scientific Data*, 7(1):1–12.
- Sakaizawa, Yuya and Mamoru Komachi. 2018. Construction of a Japanese word similarity dataset. In *Proceedings of LREC*, pages 948–951.
- Schlechtweg, Dominik, Anna Häfty, Marco Del Tredici, and Sabine Schulte im Walde. 2019. A wind of change: Detecting and evaluating lexical semantic change across times and domains. In *Proceedings of ACL*, pages 732–746.
- Schuster, Mike and Kaisuke Nakajima. 2012. Japanese and korean voice search. In *International Conference on Acoustics, Speech and Signal Processing*, pages 5149–5152.
- Schwartz, Roy, Roi Reichart, and Ari Rappoport. 2015. Symmetric pattern based word embeddings for improved word similarity prediction. In *Proceedings of CoNLL*, pages 258–267.
- Schwartz, Roy, Roi Reichart, and Ari Rappoport. 2016. Symmetric patterns and coordinations: Fast and enhanced representations of verbs and adjectives. In *Proceedings of NAACL-HLT*, pages 499–505.
- Smith, Samuel L., David H.P. Turban, Steven Hamblin, and Nils Y. Hammerla. 2017. Offline bilingual word vectors, orthogonal transformations and the inverted softmax. In *Proceedings of ICLR (Conference Track)*.
- Snyder, Benjamin and Regina Barzilay. 2010. Climbing the tower of Babel: Unsupervised multilingual learning. In *Proceedings of ICML*, pages 29–36.
- Søgaard, Anders, Sebastian Ruder, and Ivan Vulić. 2018. On the limitations of unsupervised bilingual dictionary induction. In *Proceedings of ACL*, pages 778–788.
- Suzuki, Ikumi, Kazuo Hara, Masashi Shimbo, Marco Saerens, and Kenji Fukumizu. 2013. Centering similarity measures to reduce