

BIBLIOGRAPHY

- [1] G. n. N. Abdelhadi Soudi, Antal van den Bosch. *Arabic Computational Morphology*. Text, Speech and Language Technology. Springer, 2007. ISBN 9781402060458.
- [2] U. R. Abu Razin. *Ilmu Nahwu Untuk Pemula*. Cetakan III. Pustaka BISA, 2017. URL <https://dewisaputri.files.wordpress.com/2016/02/ebook-ilmu-nahwu-untuk-pemula.pdf>.
- [3] U. R. Abu Razin. *Ilmu Sharaf Untuk Pemula*. Cetakan III. Pustaka BISA, 2017. URL <https://dewisaputri.files.wordpress.com/2016/02/ebook-ilmu-nahwu-untuk-pemula.pdf>.
- [4] C. C. Aggarwal et al. Neural networks and deep learning. *Springer*, 10:978–3, 2018.
- [5] M. N. Al-Kabi, S. A. Kazakzeh, B. M. A. Ata, S. A. Al-Rababah, and I. M. Alsmadi. A novel root based arabic stemmer. *Journal of King Saud University-Computer and Information Sciences*, 27(2):94–103, 2015.
- [6] K. R. Beesley. Finite-state morphological analysis and generation of arabic at xerox research: Status and plans in 2001. In *ACL Workshop on Arabic Language Processing: Status and Perspective*, volume 1, pages 1–8, 2001.
- [7] G. Booij. *The grammar of words: An introduction to linguistic morphology*. Oxford University Press, 2012.
- [8] E. K. Brown and J. E. Miller. *Concise encyclopedia of syntactic theories*. Pergamon Press, 1996.
- [9] J. Brownlee. *Deep learning with Python: develop deep learning models on Theano and TensorFlow using Keras*. Machine Learning Mastery, 2016.
- [10] L. Cahill. A syllable-based account of arabic morphology. In *Arabic Computational Morphology*, pages 45–66. Springer, 2007.
- [11] J. Chung, K. Cho, and Y. Bengio. A character-level decoder without explicit segmentation for neural machine translation. *arXiv preprint arXiv:1603.06147*, 2016.
- [12] A. Conneau, D. Kiela, H. Schwenk, L. Barrault, and A. Bordes. Supervised learning of universal sentence representations from natural language inference data. *arXiv preprint arXiv:1705.02364*, 2017.
- [13] M. R. Costa-Jussa and J. A. Fonollosa. Character-based neural machine translation. *arXiv preprint arXiv:1603.00810*, 2016.

- [14] R. Cotterell, C. Kirov, J. Sylak-Glassman, G. Walther, E. Vylomova, A. D. McCarthy, K. Kann, S. Mielke, G. Nicolai, M. Silfverberg, et al. The conll-sigmorphon 2018 shared task: Universal morphological reinflection. *arXiv preprint arXiv:1810.07125*, 2018.
- [15] C. Dos Santos and B. Zadrozny. Learning character-level representations for part-of-speech tagging. In *International Conference on Machine Learning*, pages 1818–1826. PMLR, 2014.
- [16] K. Dukes. The quranic arabic corpus, 2017. URL <http://corpus.quran.com/>.
- [17] W. Feng, N. Guan, Y. Li, X. Zhang, and Z. Luo. Audio visual speech recognition with multimodal recurrent neural networks. In *2017 International Joint Conference on Neural Networks (IJCNN)*, pages 681–688. IEEE, 2017.
- [18] D. Graff, M. Maamouri, B. Bouziri, S. Krouna, S. Kulick, and T. Buckwalter. Standard arabic morphological analyzer (sama). *Linguistic Data Consortium LDC2009E73*, 2010.
- [19] N. Habash. *Introduction to Arabic Natural Language Processing*. Synthesis Lectures on Human Language Technologies. Morgan & Claypool Publishers, 2010. ISBN 9781598297966. URL <https://books.google.co.id/books?id=nZtdAQAAQBAJ>.
- [20] N. Habash and O. Rambow. Magead: a morphological analyzer and generator for the arabic dialects. In *Proceedings of the 21st International Conference on Computational Linguistics and 44th Annual Meeting of the Association for Computational Linguistics*, pages 681–688, 2006.
- [21] S. Hidayatullah. *Cakrawala Linguistik Arab*. Grasindo, Jakarta Indonesia, 2017.
- [22] Z. Karimatanisak et al. *Fi’il Shohih dalam Kitab Al-Akhlaq Lil Banaat Jilid 2 (Analisis Morfologis)*. PhD thesis, Universitas Negeri Semarang, 2015.
- [23] D. P. Kingma and J. Ba. Adam: A method for stochastic optimization. *arXiv preprint arXiv:1412.6980*, 2014.
- [24] C. Kirov, R. Cotterell, J. Sylak-Glassman, G. Walther, E. Vylomova, P. Xia, M. Faruqui, S. Mielke, A. D. McCarthy, S. Kübler, et al. Unimorph 2.0: universal morphology. *arXiv preprint arXiv:1810.11101*, 2018.
- [25] D. C. Kurniawan, N. Nababan, and R. Santosa. Dhomir on the moses story in al qur’an suraa at-thaha. In *Proceeding of International Conference on Art, Language, and Culture*, volume 2, pages 243–248, 2017.

- [26] H.-g. Lee, G. Park, and H. Kim. Effective integration of morphological analysis and named entity recognition based on a recurrent neural network. *Pattern Recognition Letters*, 112:361–365, 2018.
- [27] A. G. Martínez, S. L. Hervás, D. Samy, C. G. Arques, and A. M. Sandoval. Jabalín: a comprehensive computational model of modern standard arabic verbal morphology based on traditional arabic prosody. In *International Workshop on Systems and Frameworks for Computational Morphology*, pages 35–52. Springer, 2013.
- [28] W. McKinney et al. pandas: a foundational python library for data analysis and statistics. *Python for high performance and scientific computing*, 14(9):1–9, 2011.
- [29] J. Micher. Improving coverage of an inuktitut morphological analyzer using a segmental recurrent neural network. In *Proceedings of the 2nd Workshop on the Use of Computational Methods in the Study of Endangered Languages*, pages 101–106, 2017.
- [30] H. Morita, D. Kawahara, and S. Kurohashi. Morphological analysis for unsegmented languages using recurrent neural network language model. In *Proceedings of the 2015 Conference on Empirical Methods in Natural Language Processing*, pages 2292–2297, 2015.
- [31] A. Mottini and R. Acuna-Agost. Relative label encoding for the prediction of airline passenger nationality. In *2016 IEEE 16th International Conference on Data Mining Workshops (ICDMW)*, pages 671–676. IEEE, 2016.
- [32] M. E. Muhammad. *From the treasures of arabic morphology*. Zam Zam Publishers, 2013.
- [33] S. Nasution. *Pengantar Linguistik Bahasa Arab*. 1. Lisan Arabi, Sidoarjo East Java Indonesia, 3 edition, 2 2017. ISBN 978-602-70113-8-0.
- [34] A. A. Neme. A lexicon of arabic verbs constructed on the basis of semitic taxonomy and using finite-state transducers. 2011.
- [35] F. Pedregosa, G. Varoquaux, A. Gramfort, V. Michel, B. Thirion, O. Grisel, M. Blondel, P. Prettenhofer, R. Weiss, V. Dubourg, et al. Scikit-learn: Machine learning in python. *the Journal of machine Learning research*, 12:2825–2830, 2011.
- [36] B. Premjith, K. Soman, and M. A. Kumar. A deep learning approach for malayalam morphological analysis at character level. *Procedia computer science*, 132:47–54, 2018.
- [37] T. I. Ramadhan, M. A. Bijaksana, and A. F. Huda. Rule based pattern type of verb identification algorithm for the holy qur’an. *Procedia Computer Science*, 157:337–344, 2019.

- [38] J. Schmidhuber. Deep learning in neural networks: An overview. *Neural networks*, 61:85–117, 2015.
- [39] R. Sennrich, B. Haddow, and A. Birch. Neural machine translation of rare words with subword units. *arXiv preprint arXiv:1508.07909*, 2015.
- [40] K. F. Shaalan, M. Attia, P. Pecina, Y. Samih, and J. van Genabith. Arabic word generation and modelling for spell checking. In *LREC*, pages 719–725, 2012.
- [41] O. Smrž. Elixirfm: implementation of functional arabic morphology. In *Proceedings of the 2007 workshop on computational approaches to Semitic languages: common issues and resources*, pages 1–8. Association for Computational Linguistics, 2007.
- [42] M. Sokolova and G. Lapalme. A systematic analysis of performance measures for classification tasks. *Information processing & management*, 45(4):427–437, 2009.
- [43] A. Soudi, V. Cavalli-Sforza, and A. Jamari. A computational lexeme-based treatment of arabic morphology. In *Proceedings of the Arabic Natural Language Processing Workshop, Conference of the Association for Computational Linguistics (ACL 2001)*, pages 50–57, 2001.
- [44] E. Vylomova, J. White, E. Salesky, S. J. Mielke, S. Wu, E. Ponti, R. H. Maudslay, R. Zmigrod, J. Valvoda, S. Toldova, et al. Sigmorphon 2020 shared task 0: Typologically diverse morphological inflection. *arXiv preprint arXiv:2006.11572*, 2020.
- [45] A. Zhang, Z. C. Lipton, M. Li, and A. J. Smola. *Dive into Deep Learning*. 2020. <https://d2l.ai>.