

DAFTAR PUSTAKA

- [1] A. Raahul, R. Sapthagiri, K. Pankaj, and V. Vijayarajan, "Voice based gender classification using machine learning," 2017, doi: 10.1088/1757-899X/263/4/042083.
- [2] B. Moghaddam and M. H. Yang, "Gender Classification with Support Vector Machines," *Proc., Int'l Conf. Autom. Face Gesture Recognit.*, vol. pp, pp. 306–311.
- [3] Y.-L. Shue and M. Iseli, "The Role of Voice Source Measures on Automatic Gender Classification," *ICASSP 2008*, pp. 4493–4496, 2008.
- [4] E. Yucesoy and V. V. Nabiyev, "Gender identification of a speaker using MFCC and GMM," *ELECO 2013 - 8th Int. Conf. Electr. Electron. Eng.*, pp. 626–629, 2013, doi: 10.1109/eleco.2013.6713922.
- [5] G. Levi and T. Hassner, "Age and Gender Classification using Convolutional Neural Networks," *Proc. IEEE Conf. Comput. Vis. Pattern Recognit. Work. 2015*, pp. 34–42, 2015, doi: 10.1109/AFGR.2008.4813314.
- [6] J. Ahmad, M. Fiaz, S. Kwon, M. Sodanil, B. Vo, and S. W. Baik, "Gender Identification using MFCC for Telephone Applications - a Comparative Study," *arXiv Prepr. arXiv1601.01577*, 2016.
- [7] Z. Qawaqneh, A. A. Mallouh, and B. D. Barkana, "Deep neural network framework and transformed MFCCs for speaker's age and gender classification," *Knowledge-Based Syst.*, vol. 115, pp. 5–14, 2017, doi: 10.1016/j.knosys.2016.10.008.
- [8] S. Kumar and J. Yadav, "Gender Classification for Emotional Speech using GMFCC and Deep LSTM," *Int. J. Innov. Technol. Explor. Eng.*, vol. 9, no. 2, pp. 3923–3928, 2019, doi: 10.35940/ijitee.a6109.129219.
- [9] L. D. Zhiying Huang, Jian Tang, Shaofei Xue, "Speaker Adaptation of RNN-BLSTM for Speech Recognition Based on Speaker Code," *ICASSP 2016*, no. 1, pp. 5305–5309, 2016.
- [10] R. Hidayat, A. Bejo, S. Sumaryono, and A. Winursito, "Denoising speech for MFCC feature extraction using wavelet transformation in speech recognition system," *Proc. 2018 10th Int. Conf. Inf. Technol. Electr. Eng. Smart Technol. Better Soc. ICITEE 2018*, pp. 280–284, 2018, doi: 10.1109/ICITEED.2018.8534807.
- [11] J. Bai and S. Ng, *Forecasting economic time series using targeted predictors*, vol. 146, no. 2, 2008.
- [12] H. Ting, Y. Yingchun, and W. Zhaohui, "Combining MFCC and pitch to enhance the performance of the gender recognition," *Int. Conf. Signal Process. Proceedings, ICSP*, vol. 1, pp. 3–6, 2006, doi: 10.1109/ICOSP.2006.345541.
- [13] S. Xue and Z. Yan, "Improving latency-controlled BLSTM acoustic models for online speech recognition," *ICASSP, IEEE Int. Conf. Acoust. Speech Signal Process. - Proc.*, pp. 5340–5344, 2017, doi: 10.1109/ICASSP.2017.7953176.
- [14] M. K. Nammous and K. Saeed, *Natural language processing: Speaker, language, and gender identification with LSTM*, vol. 883. Springer Singapore, 2019.
- [15] M. A. Yusnita, A. M. Hafiz, M. N. Fadzilah, A. Z. Zulhanip, and M. Idris, "Automatic gender recognition using linear prediction coefficients and artificial neural network on speech signal," *Proc. - 7th IEEE Int. Conf. Control Syst. Comput. Eng. ICCSCE 2017*, vol. 2017-Novem, no. November, pp. 372–377, 2018, doi: 10.1109/ICCSCE.2017.8284437.
- [16] M. Alsulaiman, Z. Ali, and G. Muhammad, "Gender classification with voice intensity," *Proc.*

- *UKSim 5th Eur. Model. Symp. Comput. Model. Simulation, EMS 2011*, pp. 205–209, 2011, doi: 10.1109/EMS.2011.37.
- [17] M. Gupta, S. S. Bharti, and S. Agarwal, “Support vector machine based gender identification using voiced speech frames,” *2016 4th Int. Conf. Parallel, Distrib. Grid Comput. PDGC 2016*, pp. 737–741, 2016, doi: 10.1109/PDGC.2016.7913219.
- [18] S. Suyanto and A. E. Putra, “Automatic Segmentation of Indonesian Speech into Syllables using Fuzzy Smoothed Energy Contour with Local Normalization, Splitting, and Assimilation,” *J. ICT Res. Appl.*, vol. 8, no. 2, pp. 97–112, 2014, doi: <http://dx.doi.org/10.5614%2Fitbj.ict.res.appl.2014.8.2.2>.
- [19] T. Jayasankar, K. Vinothkumar, and A. Vijayaselvi, “Automatic gender identification in speech recognition by genetic algorithm,” *Appl. Math. Inf. Sci.*, vol. 11, no. 3, pp. 907–913, 2017, doi: 10.18576/amis/110331.
- [20] R. B. Handoko and S. Suyanto, “Klasifikasi Gender Berdasarkan Suara Menggunakan Support Vector Machine,” *Indones. J. Comput.*, vol. 4, no. 1, p. 9, 2019, doi: 10.21108/indojc.2019.4.1.244.
- [21] A. A. Nugraha, A. Arifianto, and Suyanto, “Generating Image Description on Indonesian Language using Convolutional Neural Network and Gated Recurrent Unit,” in *2019 7th International Conference on Information and Communication Technology (ICoICT)*, Jul. 2019, pp. 1–6, doi: <https://doi.org/10.1109/ICoICT.2019.8835370>.
- [22] M. H. Toding Bunga and S. Suyanto, “Developing a Complete Dialogue System Using Long Short-Term Memory,” in *2019 International Seminar on Research of Information Technology and Intelligent Systems (ISRITI)*, Dec. 2019, pp. 326–329, doi: <https://doi.org/10.1109/ISRITI48646.2019.9034567>.
- [23] A. W. Ramadhelza and S. Suyanto, “Indonesian Phonemicization Model Using N- Gram-Based Bidirectional Long Short-Term Memory,” in *2020 International Conference on Data Science and Its Applications (ICoDSA)*, Aug. 2020, pp. 1–6, doi: <https://doi.org/10.1109/ICoDSA50139.2020.9212943>.
- [24] F. Ertam, “An effective gender recognition approach using voice data via deeper LSTM networks,” *Appl. Acoust.*, vol. 156, pp. 351–358, 2019, doi: 10.1016/j.apacoust.2019.07.033.
- [25] A. Bouzid, “Speaker Gender Classification based on an Improved Deep Learning Approach Proposed Approach for Gender Classification,” pp. 193–198.
- [26] S. Suyanto, A. Arifianto, A. Sirwan, and A. P. Rizaendra, “End-to-End Speech Recognition Models for a Low-Resourced Indonesian Language,” in *2020 8th International Conference on Information and Communication Technology (ICoICT)*, Jun. 2020, pp. 1–6, doi: <https://doi.org/10.1109/ICoICT49345.2020.9166346>.
- [27] A. Prayitno and S. Suyanto, “Segment Repetition Based on High Amplitude to Enhance a Speech Emotion Recognition,” *Procedia Comput. Sci.*, vol. 157, pp. 420–426, 2019, doi: <https://doi.org/10.1016/j.procs.2019.08.234>.
- [28] C. Mfcc, M. Jaringan, S. Tiruan, J. S. T. Learning, and Q. Lvq, “Aplikasi Pengenalan Ucapan dengan Ekstraksi Mel-Frequency Cepstrum Coefficients (MFCC) Melalui Jaringan Syaraf Tiruan (JST) Learning Vector Quantization (LVQ) untuk Mengoperasikan Kursor Komputer,” vol. 13, no. 3, pp. 82–86, 2011, doi: 10.12777/transmisi.13.3.82-86.
- [29] R. Umar, I. Riadi, and A. Hanif, “Analisis Bentuk Pola Suara Menggunakan Ekstraksi Ciri Mel-Frequency Cepstral Coefficients (MFCC),” *CogITo Smart J.*, vol. 4, no. 2, p. 294, 2019, doi: 10.31154/cogito.v4i2.130.294-304.

- [30] M. Y. Faisal and S. Suyanto, "SpecAugment Impact on Automatic Speaker Verification System," in *2019 International Seminar on Research of Information Technology and Intelligent Systems (ISRITI)*, Dec. 2019, pp. 305–308, doi: <https://doi.org/10.1109/ISRITI48646.2019.9034603>.
- [31] J. W. Picone, "Signal Modeling Techniques in Speech Recognition," *Proc. IEEE*, vol. 81, no. 9, pp. 1215–1247, 1993, doi: [10.1109/5.237532](https://doi.org/10.1109/5.237532).
- [32] J. Li, L. Deng, R. Haeb-Umbach, and Y. Gong, "Fundamentals of speech recognition," *Robust Automatic Speech Recognition*. pp. 9–40, 2016, doi: [10.1016/b978-0-12-802398-3.00002-7](https://doi.org/10.1016/b978-0-12-802398-3.00002-7).
- [33] Y. AFRILLIA, "Modifikasi Mel-Frequency Cepstral Coefficient (Mfcc) Pada Sistem Penghafalan Al-Qur'an Dalam Pengenalan Pola Nagham Al-Qur'an," 2018.
- [34] Y. Afrillia, H. Mawengkang, M. Ramli, F. Fadlisyah, and R. P. Fhonna, "Performance Measurement of Mel Frequency Cepstral Coefficient (MFCC) Method in Learning System of Al-Qur'an Based in Nagham Pattern Recognition," *J. Phys. Conf. Ser.*, vol. 930, no. 1, 2017, doi: [10.1088/1742-6596/930/1/012036](https://doi.org/10.1088/1742-6596/930/1/012036).
- [35] M. A. For and Q. Rule, "MFCC-VQ Approach For QalqalahTajweed Rule Checking . pp 275 - 293," vol. 27, no. 4, pp. 275–293, 2014.
- [36] A. R. Choudhury, N. B. Chittaragi, and S. G. Koolagudi, "Dialect Recognition System Using Excitation Source Features," 2018, doi: [10.1109/INDICON45594.2018.8987055](https://doi.org/10.1109/INDICON45594.2018.8987055).
- [37] S. N. Endah, S. Adhy, and Sutikno, "Comparison of feature extraction MFCC and LPC in automatic speech recognition for Indonesian," *Telkomnika (Telecommunication Comput. Electron. Control.*, vol. 15, no. 1, pp. 292–298, 2017, doi: [10.12928/TELKOMNIKA.v15i1.3605](https://doi.org/10.12928/TELKOMNIKA.v15i1.3605).
- [38] R. Adelia, S. Suyanto, and U. N. Wisesty, "Indonesian Abstractive Text Summarization Using Bidirectional Gated Recurrent Unit," *Procedia Comput. Sci.*, vol. 157, pp. 581–588, 2019, doi: <https://doi.org/10.1016/j.procs.2019.09.017>.
- [39] P. M. Hanunggul and S. Suyanto, "The Impact of Local Attention in LSTM for Abstractive Text Summarization," in *2019 International Seminar on Research of Information Technology and Intelligent Systems (ISRITI)*, Dec. 2019, pp. 54–57, doi: <https://doi.org/10.1109/ISRITI48646.2019.9034616>.
- [40] B. Z. Aufa, S. Suyanto, and A. Arifianto, "Hyperparameter Setting of LSTM-based Language Model using Grey Wolf Optimizer," in *2020 International Conference on Data Science and Its Applications (ICoDSA)*, doi: <https://doi.org/10.1109/ICoDSA50139.2020.9213031>.
- [41] M. H. Aliefa and S. Suyanto, "Variable-Length Chromosome for Optimizing the Structure of Recurrent Neural Network," in *2020 International Conference on Data Science and Its Applications (ICoDSA)*, doi: <https://doi.org/10.1109/ICoDSA50139.2020.9213012>.
- [42] F. Ahyar and S. Suyanto, "Firefly Algorithm-based Hyperparameters Setting of DRNN for Weather Prediction," in *2020 International Conference on Data Science and Its Applications (ICoDSA)*, doi: <https://doi.org/10.1109/ICoDSA50139.2020.9212921>.