

## DAFTAR PUSTAKA

- [1] D. C. Plummer, "Top Strategic Predictions for 2017 and Beyond: Surviving the Storm Winds of Digital Disruption," dalam Gartner Symposium/ITxpo, Orlando, 2016.
- [2] N. Clinton, "Cooper," 2017. [Online].  
Available: <https://www.cooper.com/journal/2017/8/this-is-the-year-of-voice-ui>.  
[Diakses 23 Januari 2019].
- [3] Pusat Data Statistik dan Kebudayaan, "Statistik Kebudayaan 2016," Jakarta, 2016.
- [4] K. Precoda, "Non-mainstream Languages and Speech Recognition: Some Challenges," CALICO Journal, no. 21(2), pp. 229-243, 2004.
- [5] E. Cahyaningtyas dan D. Arifianto, "Development of Under-resourced Bahasa Indonesia Speech Corpus," Asia-Pacific Signal and Information Processing Association Annual Summit and Conference (APSIPA ASC), pp. 1097-1101, 2017.
- [6] R. Hidayat, Priyatmadi, and W. Ikawijaya, "Wavelet Based Feature Extraction for The Vowel Sound" in 2015 International Conference on Information technology Sytems and Innovation (ICITSI), 2015, pp. 1-4
- [7] R. Hidayat, D. Kristomo, and I. Togarma, "Feature Extraction of The Indonesian Phonemes Using Dicrete Wavelet and Wavelet Packet Transform", in The 8th International Conference on Information Technology and Electrical Engineering (ICITEE), 2016, pp. 478-483
- [8] S. Hidayat, R. Hidayat, and T. B. Adji, "Sistem Pengenal Tutar Bahasa Indonesia Berbasis Suku Kata Menggunakan MFCC, Wavelet dan HMM", in Conference on Information Technology and Electrical Engineering (CITEE), 2015, pp. 246-251
- [9] M. A. Anusuya, S.K. Katti, "Front End Analysis of Speech Recognition: A Review", Int. J. Speech Technol, vol.14, no.2, pp.99-145, January 2011.
- [10] B. Darmawan, "Ekstraksi Ciri Suara untuk Pengenalan Identitas Pembicara Menggunakan MFCC dan Hidden Markov Models," Faculty of Engineering, Gadjah Mada Univ., Yogyakarta, 2011.

- [11] V. Ferdiansyah dan A. Purwarianti, "Indonesian Automatic Speech Recognition System using English-based Acoustic Model," Proceedings of the 2011 International Conference on Electrical Engineering and Informatics, pp. 1-4, 2011.
- [12] S. Sakti, E. Kelana, H. Riza, S. Sakai, K. Markov dan S. Nakamura, "Development of Indonesian Large Vocabulary Continuous Speech Recognition System within A-STAR Project," IJCNLP, 2008.
- [13] H. Prakoso, R. Ferdiana dan R. Hartanto, "Indonesian Automatic Speech Recognition system using CMUSphinx toolkit and limited dataset," dalam International Symposium on Electronics and Smart Devices (ISESD), Bandung, 2016.
- [14] D. C. Yunanto dan D. C. Setyati, "Speech recognition with Indonesian language for controlling electric wheelchair," dalam International Seminar on Application for Technology of Information and Communication (iSemantic), Semarang, 2017.
- [15] V. A. Wardhany, M. H. Kurnia, S. Sukaridhoto, A. Sudarsono dan D. Pramadihanto, "Smart Presentation system using hand gestures and Indonesian speech command," dalam International Electronics Symposium, Surabaya, 2015.
- [16] V. A. Wardhany, S. Sukaridhoto dan A. Sudarsono, "Indonesian Automatic Speech Recognition for Command Speech Controller Multimedia Player," EMITTER International Journal of Engineering Technology, vol. 2, no. 2, 2014.
- [17] H. Alwi, S. Dardjowidjojo, H. Lapoliwa dan A. M. Moeliono, Tata Bahasa Baku Bahasa Indonesia, Edisi Ketiga penyunt., Jakarta: Balai Pustaka, 2014.
- [18] T. Sakai dan T. Doshita, "The Phonetic Typewriter, Information processing 1962," dalam Proc. IFIP Congress, Munich, 1962.
- [19] International Phonetic Association, Handbook of the International Phonetic Association: A Guide to the Use of the International Phonetic Alphabet, Cambridge: Cambridge University Press, 1999.
- [20] H. D. Young dan R. A. Freedman, University Physics, 13th Edition penyunt., San Fransisco: Pearson, 2012.
- [21] L. Rabiner dan B. H. Juang, Fundamentals of Speech Recognition, New Jersey: Prentice Hall, 1993.

- [22] L. Rabiner dan R. W. Schafer, *Theory and Application of Digital Speech Analysis*, 2009.
- [23] A. Winursito, “Peningkatan AKurasi Pengenalan Tutur Vokal Bahasa Indonesia Menggunakan Algoritma MFCC PCA/SVD,” Yogyakarta, 2018.
- [24] Risanuri. Hidayat, *Teknik Pengolahan Isyarat Digital*, Yogyakarta: Deepublish, 2016, p. 132.]
- [25] Roelandts.Tom (2014, April 15). How To Create A Simple Low-Pass Filter. Available: <https://tomroelandts.com/articles/how-to-create-a-simple-low-pass-filter.atm.com> [Diakses 10 Januari 2019]
- [26] J. P. Martens, *Continuous Speech Recognition over The Telephone*, Belgium: Electronics and Information Systems, Ghent University, 2000.
- [27] V. K. Madisetti dan D. B. Williams, *Digital Signal Processing Handbook* CRCnetBase, CRC Press LLC, 1999.
- [28] A. A. M. Abushariah dan T. S. Gunawan, *Speech Recognition using MATLAB*, Saarbrücken: Lambert Academic Publishing, 2011.
- [29] S. S. Stevens, Volkman dan E. B. John & Newman, “A scale for the measurement of the psychological magnitude pitch,” *Journal of the Acoustical Society of America*, vol. 3, no. 8, pp. 185-190, 1937.
- [30] R. Martin, *A Segmental HMM for Speech Pattern Modelling*, 2007.
- [31] S. Hidayat, “Sistem Pengenal Tutur Bahasa Indonesia Berbasis Suku Kata Menggunakan MFCC, Wavelet Dan HMM,” Yogyakarta, 2015.
- [32] A. U. Department of Electronic Systems, “Framing and Deframing,” [Online]. Available: [http://kom.aau.dk/group/04gr742/pdf/framing\\_worksheet.pdf](http://kom.aau.dk/group/04gr742/pdf/framing_worksheet.pdf). [Diakses 15 Januari 2019].
- [33] A. Alshehri, “Non-Stationary Signal Segmentation and Separation from Joint Time-Frequency Plane,” *Journal of Signal and Information Processing*, vol. 3, no. 3, pp. 339-343, 2012.
- [34] X. Huang, A. Acero dan H. Hon, *Spoken Language Processing: A guide to theory, algorithm and system development*, Prentice Hall, 2001.

- [35] T. Hastie, R. Tibshirani dan J. H. Friedman, The elements of statistical learning: Data mining, inference, and prediction, New York: Springer, 2001.
- [36] M. Data, June 2013. [Online]. Available: <https://dataq.wordpress.com/2013/06/16/perbedaan-precision-recall-accuracy/>. [diakses 22 Februari 2019]
- [37] A. Bronshtein, “Train/Test Split and Cross Validation in Python,” Towards Data Science, 17 May 2017. [Online]. Available: <https://towardsdatascience.com/train-test-split-and-cross-validation-in-python-80b61beca4b6> [Diakses 22 Februari 2018].
- [38] G. James, D. Witten, T. Hasti dan R. Tibshirani, An Introduction to Statistical Learning: with Applications in R, New York: Springer, 2013.
- [39] G. Heinzel, A. Rudiger dan R. Schilling, “Spectrum and spectral density estimation by the Discrete Fourier,” Max-Planck-Institut für Gravitationsphysik, Hannover, 2002.
- [40] H. Fayek, April 2016. [Online]. Available: <https://haythamfayek.com/2016/04/21/speech-processing-for-machine-learning.html>. [Diakses 23 Februari 2019]
- [41] K. Arvai, “Fine tuning a classifier in scikit-learn,” Towards Data Science, [Online]. Available: <https://towardsdatascience.com/fine-tuning-a-classifier-in-scikit-learn-66e048c21e65>. [Diakses 9 April 2019].