

DAFTAR PUSTAKA

- Abbaszadeh, R., Rajabipour, A., Ahmadi, H., Mahjoob, M., & Delshad, M. (2013). Prediction of watermelon quality based on vibration spectrum. *Postharvest biology and technology*, 86, 291-293.
- Aboonajmi, M., Jahangiri, M., & Hassan-Beygi, S. R. (2015). A review on application of acoustic analysis in quality evaluation of agro-food products. *Journal of food proessing and preservation*, 39(6), 3175-3188.
- Alpaydin, E. (2020). *Introduction to machine learning*. MIT press.
- Arenga, D. Z., & Cruz, J. C. (2017). Ripeness classification of cocoa through acoustic sensing and machine learning. *2017 IEEE 9th International Conference on Humanoid, Nanotechnology, Information Technology, Communication and Control, Environment and Management (HNICEM)* (hal. 1-6). IEEE.
- Bengio, Y., Goodfellow, I., & Courville, A. (2017). *Deep learning*. Cambridge, Massachusetts, United States: MIT press.
- Bengio, Y., Simard, P., & Fransconi, P. (1994). Learning long-term dependencies with gradient descent is difficult. *IEEE Transactions on Neural Networks*, 5(2), 157-166. doi:10.1109/72.279181
- Bhargava, A., & Bansal, A. (2021). Fruits and vegetables quality evaluation using computer vision: A review. *Journal of King Saud University-Computer and Information Sciences*, 33(3), 243-257.
- Boulanger, R., & Lazzarini, V. (2010). *The audio programming book*. MIT press.
- Brigham Young University. (t.thn.). *What is acoustics?* Dipetik 1 1, 2023, dari Brigham Young University: <https://acoustics.byu.edu/what-is>
- Brosnan, T., & Sun, D.-W. (2002). Inspection and grading of agricultural and food products by computer vision systems—a review. *Computers and electronics in agriculture*, 36(2-3), 193-213.
- Brown, J. C. (1991). Calculation of a constant Q spectral transform. *The Journal of the Acoustical Society of America*, 89(1), 425-434.
- Calin, O. (2020). Recurrent Neural Networks. Dalam D. Banks, J. Fan, M. Jordan, R. Kannan, Y. Nesterov, C. Ré, . . . L. Wasserman, *Springer Series in the*

Data Sciences (hal. 543-559). Cham: Springer. doi:10.1007/978-3-030-36721-3_17

- Calladcad, J. A., Cabahug, S., Catamo, M. R., Villaceran, P. E., Cosgafa, L., Cabizares, K. N., & Hermosilla, M. (2020). Determining Philippine coconut maturity level using machine learning algorithms based on acoustic signal. *Computers and electronics in agriculture*, 172, 105327.
- Cerna, M., & Harvey, A. F. (2000). *The fundamental of FFT-based*. Application Note 041, National Instruments.
- Chawla, N. V., Bowyer, K. W., Hall, L. O., & Kegelmeyer, P. (2002). SMOTE: synthetic minority over-sampling technique. *Journal of artificial intelligence research*, 321-357.
- Chollet, F. (2018). *Deep learning with Python and Keras: The practical guide from the developer of the Keras library*. Bonn: MITP-Verlags GmbH & Co. KG.
- Chollet, F., & Allaire, J. J. (2017). Deep Learning with R. *Manning Publications*.
- De Smet, S., & Scheeres, D. J. (2019). Identifying heteroclinic connections using artificial neural networks. *Acta Astronautica*, 192-199.
- Ditjenbun. (2019, Agustus 16). *Melejitnya Ekspor Sabut dan Arang Kelapa Indonesia*. Dipetik December 17, 2022, dari Kementerian Pertanian Direktorat Jendral Perkebunan: <https://ditjenbun.pertanian.go.id/melejitnya-ekspor-sabut-dan-arang-kelapa-indonesia/>
- Donis-González, I. R., Guyer, D. E., Leiva-Valenzuela, G. A., & Burns, J. (2013). Assessment of chesnut (*Castaneae* spp.) slice quality using color images. *Journal of Food Engineering*, 115(3), 407-414.
- Đozić, D. J., & Urošević, B. D. (2019). Application of artificial neural networks for testing long-term energy policy targets. *Energy*, 488-496.
- Dyrmann, M., Karstoff, H., & Midtiby, H. S. (2016). Plant species classification using deep convolutional neural network. *Biosystems engineering*, 151, 72-80.
- Fadchar, N. A., & Cruz, J. C. (2020). A Non-Destructive Approach of Young Coconut Maturity Detection using Acoustic Vibration and Neural Network. *2020 16th IEEE International Colloquium on Signal Processing & Its Applications (CSPA)* (hal. 136-137). IEEE.

- Fadchar, N. A., & Cruz, J. C. (2020). Design and Development of Neural Network-Based Coconut Maturity Detector Using Sound Signatures. *2020 IEEE 7th International Conference on Industrial Engineering and Applications (ICIEA)* (hal. 927-931). IEEE.
- Farhad Khoshnam, M. N. (2015). Acoustic Testing for Melon Fruit Ripeness Evaluation during Different Stages of Ripening. *Agriculturae Conspectus Scientificus*, 80(4), 197-204.
- Felix, A. G., Jürgen, S., & Fred, C. (2000). Learning to forget: Continual prediction with LSTM. *Neural computation*, 12(10), 2451-2471.
- Fernandez, E. O., Escosio, J. E., Jorda Jr, R. L., Tamase, M., V., P. J., Hernandez, L., . . . Real, E. (t.thn.). Arduino-based Sound Acquisition System for Coconut Maturity Classification Using Fast Fourier Trasnform Algorithm.
- Furui, S. (1986). Speaker-independent isolated word recognition based on emphasized spectral dynamics. *ICASSP'86. IEEE International Conference on Acoustics, Speech, and Signal Processing*. 11, hal. 1991-1994. IEEE.
- Gatchalian, M. M., De Leon, S. Y., & Yano, T. (1994). Measurement of young coconut (*Cocos nucifera*, L.) maturity by sound waves. *Journal of food engineering*, 23(3), 253-276.
- Ghazi, M. M., Yanikoglu, B., & Aptoula, E. (2017). Plant identification using deep neural networks via optimization of transfer learning parameters. *Neurocomputing*, 235, 228-235.
- Giannakopoulos, T., & Pikrakis, A. (2014). *Introduction to audio analysis: a MATLAB® approach*. Academic Press.
- Glorot, X., Bordes, A., & Bengio, Y. (2011). Deep sparse rectifier neural networks. *Proceedings of the fourteenth international conference on artificial intelligence and statistics* (hal. 315-323). JMLR Workshop and Conference Proceedings.
- Gonzalez, R. C. (2009). *Digital image processing*. Pearson education india.
- Goodfellow, I., Bengio, Y., & Courville, A. (2016). *Deep learning*. MIT press.
- Haliday, D., & Resnick, R. (1978). *Physics* (3rd ed.). (P. Silaban, Penerj.) Jakarta: Erlangga.
- Harries, H. C. (2012). Germination rate is the significant characteristic determining coconut palm diversity. *AoB Plants* 2012.

- Heeger, D. J. (1992). Normalization of cell responses in cat striate cortex. *Visual neuroscience*, 9(2), 181-197.
- Hochreiter, S. (1991). Investigations on dynamics neural networks. *Diploma, Technical University m.*
- Hochreiter, S., & Schmidhuber, J. (1997). Long short-term memory. *Neural computation*, 9(8), 1735-1780.
- Hochreiter, S., Bengio, Y., Fransconi, P., & Schmidhuber, J. (2001). Gradient flow in recurrent nets: the difficulty of learning long-term dependencies. *A Field Guide to Dynamical Recurrent Neural Networks*. IEEE press.
- Ignacio, I.-F., & Miguel, T.-S. (2021). Research opportunities on the coconut (*Cocos nucifera L.*) using new technologies. *South African Journal of Botany*, 414-420.
- Iswanto, B. H., & A., A. (2021). Texture histogram features for tea leaf identification using visible digital camera. *IOP Conference Series: Materials Science and Engineering*, 1098, hal. 032030.
- Javel, I. M., Bandala, A. A., Salvador, R. C., Bedruz, R. A., Dadios, E. P., & Vicerra, R. R. (2018). Coconut fruit maturity classification using fuzzy logic. *2018 IEEE 10th International Conference on Humanoid, Nanotechnology, Information Technology, Communication and Control, Environment and Management (HNICEM)* (hal. 1-6). IEEE.
- Jones, E., Oliphant, E., & Peterson, P. (2019). Scipy: Open source scientific tools for Python [<http://www.scipy.org/>]. *Go to reference in article*.
- Kamilaris, A., Francesc, X., & Prenafeta-Boldú. (2018). Deep learning in agriculture: A survey. *Computers and electronics in agriculture*, 70-90.
- Ketelaere, B. D., Bamelis, F., Kemps, B., Decuyper, E., & Baerdemaeker, J. D. (2004). Non-destructive measurements of the egg quality. *World's Poultry Science Journal*, 60(3), 289-302.
- Klapuri, A. (2006). *Introduction to music transcription*. Boston, MA: Springer.
- Kopparapu, S. K., & Laxminarayana, M. (2010). Choice of Mel filter bank in computing MFCC of a resampled speech. *10th International Conference on Information Science, Signal Processing and their Applications (ISSPA 2010)* (hal. 121-124). IEEE.

- Kotsiantis, S. B., Zaharakis, I., & Pintelas, P. (2007). Supervised machine learning: A review of classification techniques. *Emerging artificial intelligence applications in computer engineering*, 3-24.
- Krizhevsky, A., Sutskever, I., & Hinton, G. E. (2017). Imagenet classification with deep convolutional neural networks. *Communications of the ACM*, 60(6), 84-90.
- Kurzkar, P. K., Mukh, R. R., & Waghmare, V. B. (2014). A comparative study of feature extraction techniques for speech recognition system. *International Journal of Innovatice Research in Science, Engineering and Technology*, 3(12), 18006-18016.
- Larada, J. I., G. J., & Ferrer., L. V. (2018). Postharvest classification of banana (*Musa acuminata*) using tier-based machine learning. *Postharvest biology and technology*, 145, 93-100.
- Le, T.-T., & Lin, C.-Y. (2019). Deep learning for noninvasive classification of clustered horticultural crops - A case for banana fruit tiers. *Postharvest Biology and Technology*, 156, 110922.
- LeCun, Y., Bengio, Y., & Hinton, G. (2015). Deep learning. *Nature*, 521(7553), 436-444.
- LeCun, Y., Bottou, L., Bengio, Y., & Haffner, P. (1998). Gradient-based learning applied to document recognition. *Proceedings of the IEEE*, 86(11), 2278-2324.
- Lu, Y., Yi, S., Zeng, N., Liu, Y., & Zhang, Y. (2017). Identification of rice diseases using deep convolutional neural networks. *Neurocomputing*, 267, 378-384.
- Manly, B. F. (2016). *Multivariate statistical methods: a primer*. Chapman and Hall/CRC.
- Martinet, R. K., Voinier, T., & Ystad, S. (2006). *Computer music modeling and retrieval*. Springer Verlag Berlin Heidelberg.
- Messner, E., Fediuk, M., Swatek, P., Stefan, S., Smolle-Jüttner, F. M., Olschewski, H., & Pernkopf, F. (2020). Multi-channel lung sound classification with convolutional recurrent neural networks. *Computers in Biology and Medicine*, 122, 103831.

- Mohammadi, V., Kheiralipur, K., & Ghasemi-Varnamkhasti, M. (2015). Detecting maturity of persimmon fruit based on image processing technique. *Scientia Horticulturae*, 184, 123-128.
- Passricha, V., & Aggarwal, R. K. (2020). A hybrid of deep CNN and bidirectional LSTM for automatic speech recognition. *Journal of Intelligent Systems*, 29(1), 1261-1274.
- Rabiner, L. R., & Schafer, R. W. (2007). Introduction to digital speech processing. *Foundations and Trends® in Signal Processing*, 2(1-2), 1-194.
- Rakotomamonjy, A. (2017). Supervised Representation Learning for Audio Scene Classification. *IEEE/ACM Transactions on Audio, Speech, and Language Processing*, 1253-1265.
- Rakotomamonjy, A., & Gasso, G. (2014). Histogram of gradients of time-frequency representations for audio scene classification. *IEEE/ACM Transactions on Audio, Speech, and Language Processing*, 142-153.
- Royal Botanic Gardens. (2022, December 17). *World Checklist of Selected Plant Families*. Diambil kembali dari <https://powo.science.kew.org/taxon/urn:lsid:ipni.org:names:666160-1/general-information>
- Russell Stuart, J., & Norvig, P. (2009). *Artificial intelligence: a modern approach*. Prentice Hall.
- Sak, H., Senior, A. W., & Beaufays, F. (2014). Long short-term memory recurrent neural network architectures for large scale acoustic modeling. *INTERSPEECH*, 338-342.
- Saltveit, M., Upadhyaya, S., Happ, JF, Caveletto, R., & O'Brien, M. (1985). Maturity determination of tomatoes using acoustic methods. *American Society of Agricultural Engineers (Microfiche collection)(USA)*.
- Schmidhuber, J. (2015). Deep learning in neural networks: An overview. *Neural networks*, 61, 85-117.
- Schörkhuber, C., & Klapuri, A. (2010). Constant-Q transform toolbox for music processing. *7th sound and music computing conference*, (hal. 3-64). Barcelona.

- Schutz, M., & Vaisberg, J. M. (2012). Surveying the temporal structure of sounds used in Music Perception. *Music Perception: An Interdisciplinary Journal*, 31(3), 288-296.
- Shen, Y., Zhou, H., Li, J., Jian, F., & Jayas, D. S. (2018). Detection of stored-grain insects using deep learning. *Computers and Electronics in Agriculture*, 145(145), 319-325.
- Shmueli, G., Bruce, P. C., Gedeck, P., & Patel, N. R. (2019). *Data mining for business analytics: concepts, techniques and applications in Python*. John Wiley & Sons.
- Shukla, A., & Jibhakate, S. S. (2010). Feasibility analysis and comparative study of FFT & autocorrelation algorithms. *International Journal of Computer Applications*, 975, 8887.
- Simard, P. Y., Steinkraus, D., & Platt, J. C. (2003). Best practices for convolutional neural networks applied to visual document analysis. *lcdr*, 3.
- Smith III, J. O. (2010). *Audio signal processing in Faust*. Stanford University Press.
- Smith, S. (2013). *Digital Signal Processing: A Practical Guide for Engineers and Scientists*. Elsevier.
- Stankovic, L. (1994). A method for time-frequency analysis. *IEEE Transactions on Signal Processing*, 42(1), 225-229.
- Statista. (2022, January 24). *Coconut: global harvested area 2020*. Dipetik December 17, 2022, dari statista: <https://www.statista.com/statistics/1040517/harvested-area-of-coconuts-worldwide/#statisticContainer>
- Sutrisno. (1980). *Fisika Dasar*. Bandung: Institut Teknologi Bandung.
- Tang, J., Wang, D., He, Z. Z., Xin, J., & Xu, Y. (2017). Weed identification based on K-means feature learning combined with. *Computers and electronics in agriculture*, 135, 63-70.
- Thulin, S. (2018). Sound maps matter: expanding cartophony. *Social & Cultural Geography*, 2, 192-210.
- Tohyama, M., & Koike, T. (1998). *Fundamentals of Acoustics Signal Processing*. Elsevier. doi:10.1016/B978-0-12-692660-6.X5000-6

- Torgo, L. (2016). Data mining with R: Learning with case studies. *Data mining with R: Learning with case studies*.
- Tzanetakis, G., & Cook, P. (2002). Musical genre classification of audio signals. *IEEE Transactions on speech and audio processing*, 10(5), 293-302.
- Xu, M., Duan, L.-Y., Cai, J., Chia, L.-T., Xu, C., & Tian, Q. (2004). HMM-Based Audio Keyword Generation. *Pacific-Rim Conference on Multimedia* (hal. 556-574). Heidelberg: Springer.
- Xuan, P., Ye, Y., Zhang, T., Zhao, L., & Sun, C. (2019). Convolutional neural network and bidirectional long short-term memory-based method for predicting drug-disease associations. *Cells*, 8(7), 705.
- Zheng, F., Zhang, G., & Song, Z. (2001). Comparison of Different Implementations of MFCC. *J. Computers Science & Technology*, 16(6), 582-589.

