

## DAFTAR PUSTAKA

- Abbas, A. K. (2009). *Phonocardiography Signal Processing*. Germany: Morgan & Claypool Publisher.
- Antonisfia, Y., & Wiryadinata, R. (2008). *Ekstraksi Ciri Isyarat Suara Jantung Menggunakan Power Spectral Density Berbasis Metode Welc*. 6(1), 71–84.
- Audacity. (n.d.). Audacity. Retrieved April 15, 2019, from <https://www.audacityteam.org/about/>
- Chen, C. H., Huang, W. T., Tan, T. H., Chang, C. C., & Chang, Y. J. (2015). Using K-nearest neighbor classification to diagnose abnormal lung sounds. *Sensors (Switzerland)*, 15(6), 13132–13158. <https://doi.org/10.3390/s150613132>
- Debbal, S. M., & Bereksi-Reguig, F. (2008). Filtering and classification of phonocardiogram signals using wavelet transform. *Journal of Medical Engineering and Technology*, 32(1), 53–65. <https://doi.org/10.1080/03091900600750348>
- Hamidah, A., Saputra, R., Mengko, T. L. R., Mengko, R., & Anggoro, B. (2017). Effective heart sounds detection method based on signal's characteristics. *2016 International Symposium on Intelligent Signal Processing and Communication Systems, ISPACS 2016*, (10), 1–4. <https://doi.org/10.1109/ISPACS.2016.7824730>
- Hendradi, R. (2010). *Proposal Disertasi Pengembangan Sistem Diagnosa Cardiac Pathology Berdasarkan Klasifikasi Sinyal Akustik Jantung Menggunakan Continous Wavelet Transform ( Cwt ) Dan Artificial Neural Network ( Ann )*. Institut Teknologi Sepuluh Nopember.
- Hendradi, R., Arifin, A., Shida, H., Gunawan, S., Purnomo, M. H., Hasegawa, H., & Kanai, H. (2016). *Analysis and Methods To Test Classification of*. 90(1), 222–236.
- Jabbar, M. A. (2017). Prediction of heart disease using k-nearest neighbor and particle swarm optimization. *Biomedical Research (India)*, 28(9), 4154–4158.
- José, I. (2018). KNN (K-Nearest Neighbors). Retrieved from <https://towardsdatascience.com/knn-k-nearest-neighbors-1-a4707b24bd1d>
- Lubaib, P., & Muneer, K. V. A. (2016). The Heart Defect Analysis Based on PCG Signals Using Pattern Recognition Techniques. *Procedia Technology*, 24, 1024–1031. <https://doi.org/10.1016/j.protcy.2016.05.225>
- Mathworks. (n.d.). What is Matlab. Retrieved April 23, 2019, from <https://www.mathworks.com/discovery/what-is-matlab.html>
- Polikar, R. (2001). The Wavelet Tutorial. Retrieved April 10, 2019, from [https://cseweb.ucsd.edu/~baden/Doc/wavelets/polikar\\_wavelets.pdf](https://cseweb.ucsd.edu/~baden/Doc/wavelets/polikar_wavelets.pdf)
- Randhawa, S. K., & Singh, M. (2015). Classification of Heart Sound Signals Using

- Multi-modal Features. *Procedia Computer Science*, 58, 165–171. <https://doi.org/10.1016/j.procs.2015.08.045>
- Rizal, A., & Suryani, V. (2014). *Aplikasi Pengolahan Sinyal Digital pada Analisis dan Pengenalan Suara Jantung dan Paru untuk Diagnosis Penyakit Jantung dan Paru Secara Otomatis*. Retrieved from <http://achmadrizal.staff.telkomuniversity.ac.id/wp-content/uploads/sites/11/2014/06/artikel-rizalsitia2007.pdf>
- Scanlon, valarie C., & Sanders, T. (2007). Essentials of Anathomy and Physiology. In *In Vitro*. Philadelphia: F. A. Davis Company Copyright.
- Setiawan, E. (2011). *Analisa dan Pengenalan Suara Jantung Menggunakan Wavelet dan JST dalam Mengklasifikasikan Jenis Kelainan Katup Jantung pada Manusia*.
- Smith, L. (2006). A tutorial on Principal Component Analysis. *Technical Report OUCS-2002-12 A*.
- Stein, E., & Delman, A. J. (1994). *Rapid Interpretation of Heart Sounds and Murmurs* (Indonesian). Jakarta: EGC.
- Tan, L., & Jiang, J. (2013). *Digital Signal Processing*. New Mexico: Academic Press.
- Tharwat, A. (2016). Principal component analysis - a tutorial. *International Journal of Applied Pattern Recognition*, 3(3), 197. <https://doi.org/10.1504/ijapr.2016.079733>
- Tilkian, A. G., & Conover, M. B. (2008). *Memahami Bunyi dan Bising Jantung* (Indonesian). Jakarta: Binarupa Aksara.
- WHO. (n.d.). Cardiovascular diseases (CVDs). Retrieved April 10, 2019, from [https://www.who.int/news-room/fact-sheets/detail/cardiovascular-diseases-\(cvds\)](https://www.who.int/news-room/fact-sheets/detail/cardiovascular-diseases-(cvds))
- Williams, L., & Wilkins. (2005). *Heart Sounds made Incredibly Easy*. Philadelphia: Lippincott Williams & Wilkins.