

**DAFTAR PUSTAKA**

- [1] Health informatics--Personal health device communication Part 10406: Device specialization--Basic electrocardiograph (ECG) (1- to 3-lead ECG)," in IEEE Std 11073-10406-2011, vol., no., pp.1-73, 30 Nov. 2011, doi: 10.1109/IEEESTD.2011.6093702.
- [2] U. R. Acharya., J. S. Suri, J. A. E. Spaan, and S. M. Krishnan, Advances in Cardiac Signal Processing. Springer-Verlag, Berlin Heidelberg, 2007.
- [3] S. A. Jones, BLS, ACLS, dan PALS: Clinical Pocket Guide, Philadelphia: F. A. Davis Company, 2014.
- [4] R. Kher, "Signal Processing Techniques for Removing Noise from ECG Signals," Journal of Biomedical Engineering and Research, vol. 3, pp. 1-9, 2019.
- [5] M. Ldrova, R. Martinek and R. Jaros , "Power Line Interference Elimination in ECG Signals," *Journal of Biomimetics, Biomaterials and Biomedical Engineering*, vol. 41, 2019, pp. 105-115, doi: 10.4028/www.scientific.net/JBBBE.41.105.
- [6] L. Tan and J. Jiang, Digital Signal Processing, Waltham: Elsevier.
- [7] C. M. Wang and W. C. Xiao, "Second-order IIR Notch Filter Design and implementation of digital signal processing system," in International Symposium on Computer, Communication, Control and Automation (ISCCCA-13), Paris, 2013.
- [8] B. -. Kohler, C. Hennig and R. Orglmeister, "The principles of software QRS detection," in *IEEE Engineering in Medicine and Biology Magazine*, vol. 21, no. 1, pp. 42-57, Jan.-Feb. 2002, doi: 10.1109/51.993193.
- [9] D. S. Benitez, P. A. Gaydecki, A. Zaidi and A. P. Fitzpatrick, "A new QRS detection algorithm based on the Hilbert transform," *Computers in Cardiology 2000. Vol.27 (Cat. 00CH37163)*, 2000, pp. 379-382, doi: 10.1109/CIC.2000.898536.
- [10] King, F.W., Hilbert Transforms Volume 1, Cambridge University Press, Cambridge, 2009.
- [11] Carlos A. Ledezma, Miguel Altuve (2019) Optimal data fusion for the improvement of QRS complex detection in multi-channel ECG recordings [Source Code]. <https://doi.org/10.24433/CO.1171327.v1>.
- [12] E. Doering, "Plot Frequency Response," National Instrument, 6 September 2017. [Online]. Available: <https://forums.ni.com/t5/Example-Code/Plot-Frequency-Response/ta-p/3512250?profile.language=en>. [Accessed 5 March 2021].
- [13] E. Doering, "Plot Pole-Zero Diagram," National Instrument, 6 September 2017. [Online]. Available: <https://forums.ni.com/t5/Example-Code/Plot-Pole-Zero-Diagram/ta-p/3512393?profile.language=en>. [Accessed 5 March 2021].
- [14] Z. Arifin, Evaluasi Pembelajaran, Bandung: Remaja Rosda Karya, 2013
- [15] A. Sa'dun, Instrumen Perangkat Pembelajaran, Bandung: Remaja Rosdakarya, 2013.
- [16] Z. A. Asyti Febliza, Statistika Dasar Penelitian, Pekanbaru: Adefa Grafika, 2015.
- [17] Hampton, J., 2014. The ECG Made Easy. Edinburgh: Churchill Livingstone/Elsevier.
- [18] Analog Devices, "Single-Lead, Heart Rate Monitor Front End AD8232," AD8232 datasheet, Maret 2020



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POWER LINE DAN PENENTUAN

DETAK JANTUNG

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- [19] B. Clive M., “Electrocardiogram 1 and 2,” *ecurriculum.som.vcu.edu*, Agustus 28, 2008.[Online]. Available: <https://ecurriculum.som.vcu.edu/portal/resources/2009/physio/ECGmeasurement/lecture.pdf> [Accessed: Aug. 1, 2021].