

DAFTAR PUSTAKA

- [1] H. Li, X. Wang, L. Chen, and E. Li, “Denoising and R-peak detection of electrocardiogram signal based on EMD and improved approximate envelope,” *Circuits, Syst. Signal Process.*, vol. 33, no. 4, pp. 1–17, 2014, doi: 10.1007/s00034-013-9691-3.
- [2] Y. Chen and W. Chen, “Finger ECG based Two-phase Authentication Using 1D Convolutional Neural Networks,” *Proc. Annu. Int. Conf. IEEE Eng. Med. Biol. Soc. EMBS*, vol. 2018-July, pp. 1–4, 2018, doi: 10.1109/EMBC.2018.8512263.
- [3] S. K. Yadav, R. Sinha, and P. K. Bora, “Electrocardiogram signal denoising using non-local wavelet transform domain filtering,” *IET Signal Process.*, vol. 9, no. 1, pp. 1–9, 2016, doi: 10.1049/iet-spr.2014.0005.
- [4] S. Francisco, C. Springs, E. David, O. City, S. Francisco, and R. U. S. A. Data, “ELECTROCARDIOGRAM SIGNAL DETECTION,” US 9,254,095 B2, 2016.
- [5] M. Blanco-Velasco, B. Weng, and K. E. Barner,

- “ECG signal denoising and baseline wander correction based on the empirical mode decomposition,” *Comput. Biol. Med.*, vol. 38, no. 1, pp. 1–13, 2008, doi: 10.1016/j.combiomed.2007.06.003.
- [6] R. V Andreão, B. Dorizzi, and J. Boudy, “ECG Signal Analysis Through Hidden Markov Models,” vol. 53, no. 8, pp. 1–9, 2006.
- [7] Y. C. Yeh and W. J. Wang, “QRS complexes detection for ECG signal: The Difference Operation Method,” *Comput. Methods Programs Biomed.*, vol. 91, no. 3, pp. 1–10, 2008, doi: 10.1016/j.cmpb.2008.04.006.
- [8] D. Permana, W. S. M. Sanjaya, and H. Aliah, “Desain dan Implementasi Perancangan Elektrokardiograf (EKG) Berbasis Bluetooth,” *Al-HAZEN J. Phys.*, vol. 2, no. 1, pp. 1–9, 2015, [Online]. Available: <http://journal.uinsgd.ac.id/index.php/ahjop/article/view/309>.
- [9] H. P. Da Silva, A. Fred, A. Lourenco, and A. K. Jain, “Finger ECG signal for user authentication:

Usability and performance,” *IEEE 6th Int. Conf. Biometrics Theory, Appl. Syst. BTAS 2013*, vol. 1, no. 1, pp. 1–8, 2013, doi: 10.1109/BTAS.2013.6712689.

- [10] . S. A. B., “Finger Touch Based Ecg Monitoring,” *Int. J. Res. Eng. Technol.*, vol. 05, no. 07, pp. 1–4, 2016, doi: 10.15623/ijret.2016.0507040.
- [11] P. Wangmo, G. Ramyavani, K. S. Iyer, and V. Karthik Raj, “Two electrode ECG and EOG system for monitoring applications,” *Int. J. Innov. Technol. Explor. Eng.*, vol. 8, no. 11, pp. 1–4, 2019, doi: 10.35940/ijitee.K1315.0981119.
- [12] F. Purwanda, “Rancang Bangun Elektrokardiograf Menggunakan Mikrokontroler Untuk Mendeteksi Ketidaknormalan Jantung,” vol. 44, no. 12, pp. 1–19, 2019, doi: 10.19540 /j. cnki. cjcmm. 20190128. 002.
- [13] A. Joseph, “WIRELESS ELECTRODE ARRANGEMENT AND METHOD FOR PATIENT MONITORING VIA ELECTROCARDIOGRAPHY,” vol. 2, no. 12, pp. 1–20, 2011.
- [14] D. Liawatimena, “Portable Elektrocardiograph,”

Tek. Komuter, vol. 19, no. 2, pp. 1–9, 2011.

- [15] W. E. G. S. EAL, “ELECTROCARDIOGRAPH,” 2,674,992, 1954.
- [16] Anmelder, “COMBINATION OF ELECTROCARDIOGRAM,” WO 94/18890, 1994.
- [17] M. Yunus, A. Talib, and A. Khan, “Designing a 3-Lead Cost Effective Ecg Recording Glove for Home Monitoring,” *Biosci. Eng. An Int. J.*, vol. 1, no. 1, p. 45, 2014.
- [18] Rohadatul ‘Aisy, “Cardiac Monitor Berbasis Personal Computer (PC) Parameter Electrocardiograph (ECG,” vol. 1, no. 0, pp. 1–12, 2016.
- [19] S. Yunarni, “RANCANG BANGUN EKG 3 CHANNEL BERBASIS ARDUINO,” pp. 1–9, 2017.
- [20] A. Aziz, “MONITORING EKG 3 CHANNEL BERBASIS PERSONAL KOMPUTER (Atfirul,” pp. 1–8, 2016.
- [21] Y. Suryana and R. Aziz, “Sistem Pemonitor Detak Jantung Portable Menggunakan Tiga Sensor

- Elektroda,” *J. Al-AZHAR Indones. SERI SAINS DAN Teknol.*, vol. 4, no. 1, p. 14, 2018, doi: 10.36722/sst.v4i1.240.
- [22] T. Istiqomah, “Pengembangan Elektrokardiografi (EKG) Portable Sebagai Wujud Teknologi Tepat Guna,” vol. 44, no. 12, pp. 2–8, 2019, doi: 10.19540 /j. cnki. cjcmm. 20190128. 002.
- [23] A. J. Weinhaus and K. P. Roberts, “Anatomy of the human heart,” *Handb. Card. Anatomy, Physiol. Devices Second Ed.*, pp. 59–85, 2005, doi: 10.1007/978-1-60327-372-5_5.
- [24] Hugo dkk, “Finger ECG Signal for User Authentication : Usability and Performance,” 2013.
- [25] E. Ihsanto and S. Hidayat, “RANCANG BANGUN SISTEM PENGUKURAN Ph METER DENGAN MENGGUNAKAN MIKROKONTROLLER ARDUINO UNO,” *J. Teknol. Elektro*, vol. 5, no. 3, 2014, doi: 10.22441/jte.v5i3.769.