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. 1261–1276, 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. 336–339, 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. 88–96, 2015, doi: 10.1049/iet-spr.2014.0005.

[4]   S. Francisco, C. Springs, E. David, O. City, S. Francisco, and R. U. S. A. Data, "(12) United

States Patent A 1992 Milove a Sea," vol. 2, no. 12, 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.compbiomed.2007.06.003.

[6]   R. V Andreão, B. Dorizzi, and J. Boudy, "Models," vol. 53, no. 8, pp. 1541–1549, 2006.

[7]   D. Wang, Y. Si, W. Yang, G. Zhang, and J. Li, "A novel electrocardiogram biometric identification method based on temporal-frequency autoencoding," *Electron.*, vol. 8, no. 6, pp. 1–24, 2019, doi: 10.3390/electronics8060667.

[8]   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*, 2013, doi: 10.1109/BTAS.2013.6712689.

[9]   . S. A. B., "Finger Touch Based Ecg Monitoring," *Int. J. Res. Eng. Technol.*, vol. 05, no. 07, pp. 263–266, 2016, doi: 10.15623/ijret.2016.0507040.

[10]   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. 262–265, 2019, doi: 10.35940/ijitee.K1315.0981119.

[11]   N. Prashar, M. Sood, and S. Jain, "Design and performance analysis of cascade digital filter for ECG signal processing," *Int. J. Innov. Technol. Explor. Eng.*, vol. 8, no. 8, pp. 2659–2665, 2019.

[12]   Rohadatul 'Aisy, "Cardiac Monitor Berbasis Personal Computer (PC) Parameter Electrocardiograph (ECG)," vol. 1, no. 0, pp. 1–12, 2016.

[13]   A. Aziz, "MONITORING EKG 3 CHANNEL BERBASIS PERSONAL KOMPUTER," vol. 147, pp. 11–40, 2016.

[14]   "skolastika yunarni POLTEKKESSBY-Studi-
       1789-jurnal." .

[15]   M. S. Linnas, "Portable Electrocardiograph
       Dengan Sadapan Pada Telapak Tangan Dan Kaki."

[16]   R. A. Rachman, "Development of a Low-Cost and
       Efficient ECG devices with IIR Digital Filter
       Design." .

[17]   A. Aziz, "MONITORING EKG 3 CHANNEL
       BERBASIS PERSONAL KOMPUTER (Atfirul,"
       pp. 1–8, 2016.

[18]   S. Yunarni, "RANCANG BANGUN EKG 3
       CHANNEL BERBASIS ARDUINO," pp. 1–9,
       2017.

[19]   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.

[20]   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.

[21] P. B. Dimas Agil Roeseno Kambuna, "Sistem Rekayasa Balik Sinyal Elektrokardiogram (EKG)," *IJEIS - Indones. J. Electron. Instrum. Syst.*, vol. 4, no. 2, pp. 157–166, 2014, doi: 10.22146/ijeis.7116.

[22] R. Begum, M. Saleem, and R. R. Manza, "Design and Development of Real Time ECG Monitoring System," vol. 29, no. 4, pp. 3617–3625, 2020.

[23] S. HADIYOSO, M. JULIAN, A. RIZAL, and S. AULIA, "Pengembangan Perangkat EKG 12 Lead dan Aplikasi Client-Server untuk Distribusi Data," *ELKOMIKA J. Tek. Energi Elektr. Tek. Telekomun. Tek. Elektron.*, vol. 3, no. 2, p. 91, 2015, doi: 10.26760/elkomika.v3i2.91.

[24] N. A. Jaenal Arifin1), "Pengolahan Citra Pada Sinyal Ekg," *Media Elektr.*, vol. 11, no. 1, pp. 27–33, 2019.

[25]   P. Podder, M. Mehedi Hasan, M. Rafiqul Islam, and M. Sayeed, "Design and implementation of butterworth, chebyshev-i and elliptic filter for speech signal analysis," *arXiv*, 2020, doi: 10.5120/17195-7390.

[26]   P. E. Menggunakan and K. Rfid, *VERIFIKASI FINGERPRINT BERBASIS MIKROKONTROLLER ARDUINO MEGA 2560*. 2016.