DAFTAR PUSTAKA

Andika, J., Salamah, K.S. and Simarmata, L.M.S. (2020) 'Sistem Monitoring Serangan Berulang pada Penderita Penyakit Jantung menggunakan Panggilan dan Lokasi', *Jurnal Telekomunikasi dan Komputer*, 10(2), p. 77. Available at: https://doi.org/10.22441/incomtech.v10i2.8445.

Brahmantyo, A. *et al.* (2023) 'Implementasi Filtrasi Sinyal Electrocardiogram (ECG) menggunakan metode Butterworth pada Android dengan Teknologi Edge Computing', 7(1), pp. 451–457.

Bushnag, A. (2022) 'A Wireless ECG Monitoring and Analysis System Using the IoT Cloud', *Intelligent Automation and Soft Computing*, 33(1), pp. 51–70. Available at: https://doi.org/10.32604/iasc.2022.024005.

Cao, X.C. *et al.* (2019) 'Combining translation-invariant wavelet frames and convolutional neural network for intelligent tool wear state identification', *Computers in Industry*, 106, pp. 71–84. Available at: https://doi.org/10.1016/J.COMPIND.2018.12.018.

CH, R., S, N. and C, M. (2021) 'Ecg and Pulse Oxygen Level Monitoring and Arrhythmia Classification Using Cnn', *International Journal of Engineering Applied Sciences and Technology*, 6(8), pp. 171–176. Available at: https://doi.org/10.33564/ijeast.2021.v06i08.028.

Dallalbashi, Z. and Dallalbashi, Z.E. (2020) *Digital filters are essential in the wider field of digital signal processing*, *IJCSNS International Journal of Computer Science and Network Security*. Available at: https://www.researchgate.net/publication/343821701.

Estananto, N. (2018) 'Klasifikasi Sinyal Elektrokardiogram Menggunakan Renyi Entropy', *Jurnal Elektro dan Mesin Terapan*, 4(2), pp. 11–18. Available at: https://doi.org/10.35143/elementer.v4i2.2139.

García-Escobar, A. *et al.* (2022) 'Subtle QRS changes are associated with reduced ejection fraction, diastolic dysfunction, and heart failure development and therapy responsiveness: Applications for artificial intelligence to ECG',

Annals of Noninvasive Electrocardiology, 27(6), pp. 1–12. Available at: https://doi.org/10.1111/anec.12998.

Goldberger, A., Amaral, L., Glass, L., Hausdorff, J., Ivanov, P. C., Mark, R., ... & Stanley, H.E. (2000) *MIT-BIH Database v1.0.0*. Available at: https://doi.org/https://doi.org/10.13026/C2MW2D.

Goldberger, A. L.; Amaral, L. A. N.; Glass, L.; Hausdorff, J. M.; Ivanov, P. C.; Mark, R. G.; Mietus, J. E.; Moody, G. B.; Peng, C.-K.; Stanley, H.E. (2000) 'PhysioBank, PhysioToolkit, and PhysioNet: Components of a new research resource for complex physiologic signals', *Circulation*, 101(23), pp. e215–e220. Available at: https://doi.org/10.1161/01.CIR.101.23.e215.

Gunawan, D. and Setiawan, H. (2022) 'Convolutional Neural Network dalam Citra Medis', *KONSTELASI: Konvergensi Teknologi dan Sistem Informasi*, 2(2), pp. 376–390. Available at: https://doi.org/10.24002/konstelasi.v2i2.5367.

Hannun, A.Y. *et al.* (2019) 'FOCUS | Letters FOCUS | Letters Cardiologist-level arrhythmia detection and classification in ambulatory electrocardiograms using a deep neural network Letters | FOCUS', *Nature Medicine*, 25(January). Available at: https://doi.org/10.1038/s41591-018-0268-3.

Healey, J.S. *et al.* (2012) 'Subclinical Atrial Fibrillation and the Risk of Stroke', *New England Journal of Medicine*, 366(2), pp. 120–129. Available at: https://doi.org/10.1056/nejmoa1105575.

Komputer, J.S., Komputer, F.I. and Sriwijaya, U. (2022) 'Implementasi Sistem Deteksi Atrial Fibrilasi Berbasis Komputasi Awan Menggunakan Metode Convolutional Neural Network'.

Kumar, M. (2024) 'Design and Implementation of Digital Low Pass FIR and IIR Filters Using VHDL for ECG Denoising', *International Journal of Engineering Trends and Technology*, 72(1), pp. 252–265. Available at: https://doi.org/10.14445/22315381/IJETT-V72I1P125.

Kuznetsova, N. *et al.* (2022) 'Left Ventricular Diastolic Dysfunction Screening by a Smartphone-Case Based on Single Lead ECG', *Clinical Medicine Insights: Cardiology*, 16. Available at: https://doi.org/10.1177/11795468221120088.

Lee, J. *et al.* (2013) 'Atrial flutter and atrial tachycardia detection using Bayesian approach with high resolution time-frequency spectrum from ECG

recordings', *Biomedical Signal Processing and Control*, 8(6), pp. 992–999. Available at: https://doi.org/10.1016/j.bspc.2013.04.002.

Li, J. *et al.* (2017) 'Design of a Real-Time ECG Filter for Portable Mobile Medical Systems', *IEEE Access*, 5, pp. 696–704. Available at: https://doi.org/10.1109/ACCESS.2016.2612222.

Lin, G.M. and Horng-Shing Lu, H. (2021) 'Electrocardiographic machine learning to predict left ventricular diastolic dysfunction in Asian young Male adults', *IEEE Access*, 9, pp. 49047–49054. Available at: https://doi.org/10.1109/ACCESS.2021.3069232.

Lin, J. *et al.* (2021) 'MCUNetV2: Memory-Efficient Patch-based Inference for Tiny Deep Learning', *Advances in Neural Information Processing Systems*, 4, pp. 2346–2358.

Lown, M. *et al.* (2020) 'Machine learning detection of atrial fibrillation using wearable technology', *PLoS ONE*, 15(1), pp. 1–9. Available at: https://doi.org/10.1371/journal.pone.0227401.

Nguyen, T.N. *et al.* (2023) 'The Design and Construction of a 12-Channel Electrocardiogram Device Developed on an ADS1293 Chip Platform', *Electronics (Switzerland)*, 12(11). Available at: https://doi.org/10.3390/electronics12112389.

Noviar, A. and Mukti, S. (2021) 'Klasifikasi Arritmia pada Sinyal EKG menggunakan Deep Neural Network', *Jupiter*, 13, pp. 29–38.

Van Ommen, A.M. *et al.* (2021) 'Electrocardiographic Features of Left Ventricular Diastolic Dysfunction and Heart Failure With Preserved Ejection Fraction: A Systematic Review', *Frontiers in Cardiovascular Medicine*, 8(December). Available at: https://doi.org/10.3389/fcvm.2021.772803.

Rafaqat, Saira *et al.* (2022) 'Electrolyte's imbalance role in atrial fibrillation: Pharmacological management', *International Journal of Arrhythmia*, 23(1). Available at: https://doi.org/10.1186/s42444-022-00065-z.

Rahman, M.A., Samin, M.J.A. and Hasan, Z. Al (2020) 'Remote ECG monitoring and syncope detection system using deep learning', in *2020 2nd International Conference on Advanced Information and Communication Technology, ICAICT 2020*. Institute of Electrical and Electronics Engineers Inc., pp. 201–

206. Available at: https://doi.org/10.1109/ICAICT51780.2020.9333490.

Reddy, S. *et al.* (2020) 'Detection of Arrhythmia in Real-time using ECG Signal Analysis and Convolutional Neural Networks', *Proceedings of 2020 IEEE 21st International Conference on Computational Problems of Electrical Engineering, CPEE 2020*, pp. 10–13. Available at: https://doi.org/10.1109/CPEE50798.2020.9238743.

Reza, D.M. *et al.* (2023) 'Jurnal Nasional Teknik Elektro Deep Learning Autoencoder Study on ECG Signals', 3.

Rifali, M. and Irmawati, D. (2019a) 'Sistem Cerdas Deteksi Sinyal Elektrokardiogram (EKG) untuk Klasifikasi Jantung Normal dan Abnormal Menggunakan Jaringan Syaraf Tiruan (JST)', *Elinvo (Electronics, Informatics, and Vocational Education)*, 4(1), pp. 49–55. Available at: https://doi.org/10.21831/elinvo.v4i1.28242.

Rifali, M. and Irmawati, D. (2019b) 'Sistem Cerdas Deteksi Sinyal Elektrokardiogram (EKG) untuk Klasifikasi Jantung Normal dan Abnormal Menggunakan Jaringan Syaraf Tiruan (JST)', *Elinvo (Electronics, Informatics, and Vocational Education)*, 4(1), pp. 49–55. Available at: https://doi.org/10.21831/elinvo.v4i1.28242.

Rippe, J.M. (2019) 'Lifestyle Strategies for Risk Factor Reduction, Prevention, and Treatment of Cardiovascular Disease', *American Journal of Lifestyle Medicine*, 13(2), pp. 204–212. Available at: https://doi.org/10.1177/1559827618812395.

Satoto, H.H. (2014) 'Patofisiologi Penyakit Jantung Koroner', *JAI (Jurnal Anestesiologi Indonesia)*, 6(3), pp. 209–224. Available at: https://doi.org/10.14710/jai.v6i3.9127.

Schreier, B.D. (2019) 'Role of Red Blood Cells in Sickle Cell Disease and the Progression of Pulmonary Hypertension'.

Takalo-Mattila, J., Kiljander, J. and Soininen, J.P. (2018a) 'Inter-patient ECG classification using deep convolutional neural networks', *Proceedings - 21st Euromicro Conference on Digital System Design, DSD 2018*, pp. 421–425. Available at: https://doi.org/10.1109/DSD.2018.00077.

Takalo-Mattila, J., Kiljander, J. and Soininen, J.P. (2018b) 'Inter-patient ECG

classification using deep convolutional neural networks', in *Proceedings - 21st Euromicro Conference on Digital System Design, DSD 2018*. Institute of Electrical and Electronics Engineers Inc., pp. 421–425. Available at: https://doi.org/10.1109/DSD.2018.00077.

Umbu, A.B.S. (2023) 'DESAIN BAND PASS FILTER DENGAN FREKUENSI CUT-OFF 1 KHz DAN 100 KHz UNTUK SISTEM ELECTRICAL IMPEDANCE TOMOGRAPHY (EIT)', *ORBITA: Jurnal Pendidikan dan Ilmu Fisika*, 9(1), p. 58. Available at: https://doi.org/10.31764/orbita.v9i1.13947.

Wasimuddin, M. *et al.* (2020) 'Stages-based ECG signal analysis from traditional signal processing to machine learning approaches: A survey', *IEEE Access*, 8, pp. 177782–177803. Available at: https://doi.org/10.1109/ACCESS.2020.3026968.

Wicaksono, M.A., Fuadah, Y.N. and Rustam (2022) 'Sistem Deteksi Atrial Fibrillation Menggunakan Metode Convolutional Neural Network (CNN) 1-Dimensi', *e-Proceeding of Engineering*, 8(6), pp. 3927–3931.

Xi, Z. and Chen, J. (2020) 'New Nonlinear Signal Processing Method Based on LS Algorithm and Decision Feedback at Receiver', pp. 235–239.

Yao, G. *et al.* (2021) 'Interpretation of Electrocardiogram Heartbeat by CNN and GRU', 2021. Available at: https://doi.org/10.1155/2021/6534942.

Yeh, L.R. *et al.* (2021) 'Integrating ECG monitoring and classification via iot and deep neural networks', *Biosensors*, 11(6), pp. 1–12. Available at: https://doi.org/10.3390/bios11060188.