

Daftar Pustaka

- [1] ACHARYA, U. R., FUJITA, H., LIH, O. S., HAGIWARA, Y., TAN, J. H., AND ADAM, M. Automated detection of arrhythmias using different intervals of tachycardia ecg segments with convolutional neural network. *Information Sciences 405* (2017), 81 – 90. Cited by: 441.
- [2] ALAGARSAMY, M., VEDAM, J. M. J., SHANMUGAM, N., ESWARAN, P. M., SANKARAIYER, G., AND SURIYAN, K. Performing the classification of pulsation cardiac beats automatically by using cnn with various dimensions of kernels. *International Journal of Reconfigurable and Embedded Systems 11*, 3 (2022), 249 – 257. Cited by: 0; All Open Access, Gold Open Access, Green Open Access.
- [3] BASHAR, S. K., HAN, D., ZIENEDDIN, F., DING, E., FITZGIBBONS, T. P., WALKEY, A. J., MCMANUS, D. D., JAVIDI, B., AND CHON, K. H. Novel density poincaré plot based machine learning method to detect atrial fibrillation from premature atrial/ventricular contractions. *IEEE Transactions on Biomedical Engineering 68*, 2 (2021), 448–460.
- [4] BUANA, R. L. B., AND HUDATI, I. A review: Arrhythmia features detection analysis and deep learning method for wearable devices. *Jurnal Nasional Teknik Elektro dan Teknologi Informasi 11*, 1 (Feb. 2022), 61–69.
- [5] CAI, W., AND HU, D. Qrs complex detection using novel deep learning neural networks. *IEEE Access 8* (2020), 97082 – 97089. Cited by: 37; All Open Access, Gold Open Access.
- [6] CHEN, C., HUA, Z., ZHANG, R., LIU, G., AND WEN, W. Automated arrhythmia classification based on a combination network of cnn and lstm. *Biomedical Signal Processing and Control 57* (2020). Cited by: 88.
- [7] DAN RIZAL MAULANA DAN DAHNIAL SYAUQY, A. P. Implementasi sistem pendeteksi premature ventricular contraction (pvc) aritmia menggunakan metode svm. *Jurnal Pengembangan Teknologi Informasi dan Ilmu Komputer 5*, 2 (2021), 542–548.
- [8] DE MARCO, F., FERRUCCI, F., RISI, M., AND TORTORA, G. Classification of qrs complexes to detect premature ventricular contraction using

- machine learning techniques. *PLoS ONE* 17, 8 August (2022). Cited by: 0; All Open Access, Gold Open Access, Green Open Access.
- [9] DEV SHARMA, L., SUNKARIA, R. K., AND KUMAR, A. Bundle branch block detection using statistical features of qrs-complex and k-nearest neighbors. In *2017 Conference on Information and Communication Technology (CICT)* (2017), pp. 1–4.
- [10] DUAN, J., WANG, Q., ZHANG, B., LIU, C., LI, C., AND WANG, L. Accurate detection of atrial fibrillation events with r-r intervals from ecg signals. *PLoS ONE* 17, 8 August (2022). Cited by: 0; All Open Access, Gold Open Access, Green Open Access.
- [11] DUAN, J., WANG, Q., ZHANG, B., LIU, C., LI, C., AND WANG, L. Accurate detection of atrial fibrillation events with r-r intervals from ecg signals. *PLoS ONE* 17, 8 August (2022). Cited by: 0; All Open Access, Gold Open Access, Green Open Access.
- [12] EBRAHIMI, Z., LONI, M., DANESHTALAB, M., AND GHAREHBAGHI, A. A review on deep learning methods for ecg arrhythmia classification. *Expert Systems with Applications: X* 7 (2020), 100033.
- [13] FAUST, O., SHENFIELD, A., KAREEM, M., SAN, T. R., FUJITA, H., AND ACHARYA, U. R. Automated detection of atrial fibrillation using long short-term memory network with rr interval signals. *Computers in Biology and Medicine* 102 (2018), 327 – 335. Cited by: 162; All Open Access, Green Open Access.
- [14] GUICHARD, J.-B., GUASCH, E., ROCHE, F., DA COSTA, A., AND MONT, L. Premature atrial contractions: A predictor of atrial fibrillation and a relevant marker of atrial cardiomyopathy. *Frontiers in Physiology* 13 (2022). Cited by: 0; All Open Access, Gold Open Access, Green Open Access.
- [15] HAN, C., QUE, W., WANG, S., ZHANG, J., ZHAO, J., AND SHI, L. Qrs complexes and t waves localization in multi-lead ecg signals based on deep learning and electrophysiology knowledge. *Expert Systems with Applications* 199 (2022). Cited by: 2.
- [16] HUDA SEPRIANDI IBRAHIM, JONDRI, U. N. W. Analisis deep learning untuk mengenaliqrs kompleks pada sinyal ecg dengan metode cnn, 8 2018.
- [17] KARRI, M., AND ANNAVARAPU, C. S. R. A real-time embedded system to detect qrs-complex and arrhythmia classification using lstm through hybridized features. *Expert Systems with Applications* 214 (2023), 119221.

- [18] KEMENTERIAN KESEHATAN, R. I. Lingkungan sehat, jantung sehat, 10 2014.
- [19] KEMENTERIAN KESEHATAN, R. I. Indonesia dan sejarah penemuan alat elektrokardiografi, 8 2022.
- [20] KEMENTERIAN KESEHATAN, R. I. Penyakit jantung penyebab utama kematian, kemenkes perkuat layanan primer, 9 2022.
- [21] KHAN, A., SOHAIL, A., ZAHORA, U., AND SAEED, A. A survey of the recent architectures of deep convolutional neural networks. *Artificial Intelligence Review* 53 (12 2020).
- [22] MARINHO, L. B., DE M.M. NASCIMENTO, N., SOUZA, J. W. M., GURGEL, M. V., REBOUÇAS FILHO, P. P., AND DE ALBUQUERQUE, V. H. C. A novel electrocardiogram feature extraction approach for cardiac arrhythmia classification. *Future Generation Computer Systems* 97 (2019), 564–577.
- [23] MUJEEB RAHMAN, K., AND MONICA SUBASHINI, M. Ecg signal processing and analysis for accurate features extraction.
- [24] OH, S. L., NG, E. Y., TAN, R. S., AND ACHARYA, U. R. Automated diagnosis of arrhythmia using combination of cnn and lstm techniques with variable length heart beats. *Computers in Biology and Medicine* 102 (2018), 278 – 287. Cited by: 386; All Open Access, Green Open Access.
- [25] PETMEZAS, G., HARIS, K., STEFANOPOULOS, L., KILINTZIS, V., TZAVELIS, A., ROGERS, J. A., KATSAGGELOS, A. K., AND MAGLAVERAS, N. Automated atrial fibrillation detection using a hybrid cnn-lstm network on imbalanced ecg datasets. *Biomedical Signal Processing and Control* 63 (2021), 102194.
- [26] RIZWAN, A., PRIYANGA, P., ABUALSAUOD, E. H., ZAFRULLAH, S. N., SERBAYA, S. H., AND HALIFA, A. A machine learning approach for the detection of qrs complexes in electrocardiogram (ecg) using discrete wavelet transform (dwt) algorithm. *Computational Intelligence and Neuroscience* 2022 (2022). Cited by: 3; All Open Access, Gold Open Access, Green Open Access.
- [27] ROSS-HOWE, S., AND TIZHOOSH, H. Atrial fibrillation detection using deep features and convolutional networks. Cited by: 3; All Open Access, Green Open Access.

- [28] SHRIKANTH RAO, S., AND MARTIS, R. J. Machine learning based decision support system for atrial fibrillation detection using electrocardiogram. p. 263 – 266. Cited by: 4.
- [29] SIMONYAN, K., AND ZISSERMAN, A. Very deep convolutional networks for large-scale image recognition, 2015.
- [30] SOLIKHAH, M., NURYANI, N., AND DARMANTO, D. Deteksi aritmia pada elektrokardiogram dengan metode jaringan syaraf tiruan kelas jamak menggunakan fitur interval rr, lebar qrs, dan gradien gelombang r. *Jurnal Fisika dan Aplikasinya* 11 (01 2015), 36.
- [31] XIAO, Q., LEE, K., MOKHTAR, S. A., ISMAIL, I., PAUZI, A. L. B. M., ZHANG, Q., AND LIM, P. Y. Deep learning-based ecg arrhythmia classification: A systematic review. *Applied Sciences* 13, 8 (2023).
- [32] YANG, J., LI, J., LAN, K., WEI, A., WANG, H., HUANG, S., AND FONG, S. Multi-label attribute selection of arrhythmia for electrocardiogram signals with fusion learning. *Bioengineering* 9, 7 (2022). Cited by: 0; All Open Access, Gold Open Access, Green Open Access.