## Bibliography

- U Rajendra Acharya et al. Advances in cardiac signal processing. Springer, 2007.
- [2] Data Sheet AD8232. "Single-Lead, Heart Rate Monitor Front End". In: Analog Device (2013).
- [3] Sayed Tanvir Alam et al. "Towards Development of a Low Cost and Portable ECG Monitoring System for Rural/Remote Areas of Bangladesh." In: International Journal of Image, Graphics & Signal Processing 10.5 (2018).
- [4] Chittaranjan Andrade. "COVID-19 and lockdown: Delayed effects on health".
  In: Indian Journal of Psychiatry 62.3 (2020), p. 247.
- [5] Andrea Beaton et al. "The utility of handheld echocardiography for early diagnosis of rheumatic heart disease". In: Journal of the American Society of Echocardiography 27.1 (2014), pp. 42–49.
- [6] Andrea Beaton et al. "The utility of handheld echocardiography for early diagnosis of rheumatic heart disease". In: Journal of the American Society of Echocardiography 27.1 (2014), pp. 42–49.
- [7] "CARDIO-VASCULAR DISEASES." In: *The Lancet* 199.5143 (1922). Originally published as Volume 1, Issue 5143, pp. 594-595. ISSN: 0140-6736. DOI: https://doi.org/10.1016/S0140-6736(01)32941-0. URL: https://www. sciencedirect.com/science/article/pii/S0140673601329410.
- [8] Xianjie Chen et al. "Atrial fibrillation detection based on multi-feature extraction and convolutional neural network for processing ECG signals". In: *Computer Methods and Programs in Biomedicine* 202 (2021), p. 106009.

- [9] Mehdi Hasan Chowdhury and Quazi Delwar Hossain. "Development of two wireless ECG monitoring systems and their performance assessment". In: 2018 Joint 7th International Conference on Informatics, Electronics & Vision (ICIEV) and 2018 2nd International Conference on Imaging, Vision & Pattern Recognition (icIVPR). IEEE. 2018, pp. 459–464.
- [10] Nicholar Clark et al. "A wearable ECG monitoring system for real-time arrhythmia detection". In: 2018 IEEE 61st International Midwest Symposium on Circuits and Systems (MWSCAS). IEEE. 2018, pp. 787–790.
- Philip De Chazal, Maria O'Dwyer, and Richard B Reilly. "Automatic classification of heartbeats using ECG morphology and heartbeat interval features".
   In: *IEEE transactions on biomedical engineering* 51.7 (2004), pp. 1196–1206.
- [12] Priyadarshiny Dhar et al. "Cross-wavelet aided ECG beat classification using LIBSVM". In: Computer Methods in Biomechanics and Biomedical Engineering: Imaging & Visualization 6.3 (2018), pp. 343–352.
- [13] Priyadarshiny Dhar et al. "Cross-wavelet transform as a new prototype for classification of EEG signals". In: Computer Methods in Biomechanics and Biomedical Engineering: Imaging & Visualization 7.3 (2019), pp. 348–358.
- [14] Shivam Dixit and Rahul Kala. "Early detection of heart diseases using a low-cost compact ECG sensor". In: *Multimedia Tools and Applications* 80.21 (2021), pp. 32615–32637.
- [15] Bornali Dutta, Farhin Iqbal, Waseem Farooqui, et al. "Incidence, predictors, and outcome of significant atrioventricular block in acute coronary syndrome-A study from major center in North-Eastern India". In: Journal of Clinical and Preventive Cardiology 11.1 (2022), p. 15.
- [16] Willem Einthoven, G Fahr, and A De Waart. "On the direction and manifest size of the variations of potential in the human heart and on the influence of the position of the heart on the form of the electrocardiogram". In: American heart journal 40.2 (1950), pp. 163–211.
- [17] Charles Lovatt Evans. "Principles of human physiology". In: Principles of human physiology. 1956, pp. xii–1233.

- [18] Ary Goldberger. Goldberger's Clinical Electrocardiography. Elsevier, 2018.
- [19] Ary L Goldberger et al. "PhysioBank, PhysioToolkit, and PhysioNet: components of a new research resource for complex physiologic signals". In: *circulation* 101.23 (2000), e215–e220.
- [20] H Haario, V-M Taavitsainen, and PA Jokinen. "A chemometrics/statistics/neural networks toolbox for MATLAB". In: *Data Handling in Science and Technol*ogy. Vol. 6. Elsevier, 1990, pp. 133–148.
- [21] Jeffrey P Harrison and Angela Lee. "The role of e-health in the changing health care environment". In: Nursing Economics 24.6 (2006), p. 283.
- [22] Wan-dong Hong et al. "Use of an artificial neural network to predict persistent organ failure in patients with acute pancreatitis". In: *Clinics* 68.1 (2013), pp. 27–31.
- [23] Bianca S Honnekeri et al. "Sudden cardiac death in India: A growing concern".
  In: J Assoc Physicians India 62.12 (2014), pp. 36–40.
- [24] Bianca S Honnekeri et al. "Sudden cardiac death in India: A growing concern".
  In: J Assoc Physicians India 62.12 (2014), pp. 36–40.
- [25] Turker Ince, Serkan Kiranyaz, and Moncef Gabbouj. "A generic and robust system for automated patient-specific classification of ECG signals". In: *IEEE Transactions on Biomedical Engineering* 56.5 (2009), pp. 1415–1426.
- [26] Elif Izci et al. "Cardiac arrhythmia detection from 2d ecg images by using deep learning technique". In: 2019 Medical Technologies Congress (TIPTEKNO). IEEE. 2019, pp. 1–4.
- [27] Kadhim Takleef Kadhim et al. "An Overview of Patient's Health Status Monitoring System Based on Internet of Things (IoT)." In: Wireless Personal Communications 114.3 (2020).
- [28] M Gabriel Khan. Rapid ECG Interpretation (Contemporary Cardiology). 3rd editio. 2007.
- [29] Akshay Kumar et al. "Sudden cardiac death: epidemiology, pathogenesis and management". In: (2021).

- [30] Akshay Kumar et al. "Sudden cardiac death: epidemiology, pathogenesis and management". In: (2021).
- [31] Louis Lemberg, Agustin Castellanos, and Barouh V Berkovits. "Pacemaking on demand in AV block". In: Jama 191.1 (1965), pp. 12–14.
- [32] Fengying Ma et al. "Automated classification of atrial fibrillation using artificial neural network for wearable devices". In: *Mathematical Problems in Engineering* 2020 (2020).
- [33] Jiemin Ma et al. "Body mass index in young adulthood and premature death: analyses of the US National Health Interview Survey linked mortality files". In: American journal of epidemiology 174.8 (2011), pp. 934–944.
- [34] PW Macfarlane et al. "Methodology of ECG interpretation in the Glasgow program". In: Methods of information in medicine 29.04 (1990), pp. 354–361.
- [35] Sonali B Maind, Priyanka Wankar, et al. "Research paper on basic of artificial neural network". In: International Journal on Recent and Innovation Trends in Computing and Communication 2.1 (2014), pp. 96–100.
- [36] Sidra Maqbool et al. "IoT Based Remote Patient Monitoring System". In: 2020 International Conference on Decision Aid Sciences and Application (DASA).
   IEEE. 2020, pp. 1255–1260.
- [37] George A Mensah et al. "Mortality from cardiovascular diseases in sub-Saharan Africa, 1990–2013: a systematic analysis of data from the Global Burden of Disease Study 2013". In: *Cardiovascular journal of Africa* 26.2 H3Africa Suppl (2015), S6.
- [38] Majid Moavenian and Hamid Khorrami. "A qualitative comparison of artificial neural networks and support vector machines in ECG arrhythmias classification". In: *Expert Systems with Applications* 37.4 (2010), pp. 3088–3093.
- [39] George Moody. "A new method for detecting atrial fibrillation using RR intervals". In: Computers in Cardiology (1983), pp. 227–230.
- [40] George Moody. "A new method for detecting atrial fibrillation using RR intervals". In: Computers in Cardiology (1983), pp. 227–230.

- [41] George B Moody and Roger G Mark. "The impact of the MIT-BIH arrhythmia database". In: *IEEE Engineering in Medicine and Biology Magazine* 20.3 (2001), pp. 45–50.
- [42] George B Moody and Roger G Mark. "The impact of the MIT-BIH arrhythmia database". In: *IEEE Engineering in Medicine and Biology Magazine* 20.3 (2001), pp. 45–50.
- [43] Francis Morris, William J Brady, and A John Camm. ABC of clinical electrocardiography. Vol. 93. John Wiley & Sons, 2009.
- [44] Mahboubeh Ghayour Najafabadi, Amir Sobhrakhshan Khah, and Mitch Rostad. "Sedentary lifestyle among office workers and coronary heart disease risk factors due to the COVID-19 quarantine". In: Work 67.2 (2020), pp. 281–283.
- [45] H Al-Nashash. "Cardiac arrhythmia classification using neural networks". In: *Technology and Health care* 8.6 (2000), pp. 363–372.
- [46] Stanley Nattel. "New ideas about atrial fibrillation 50 years on". In: Nature 415.6868 (2002), pp. 219–226.
- [47] Yuksel Ozbay and Bekir Karlik. "A recognition of ECG arrhytihemias using artificial neural networks". In: 2001 Conference Proceedings of the 23rd Annual International Conference of the IEEE Engineering in Medicine and Biology Society. Vol. 2. IEEE. 2001, pp. 1680–1683.
- [48] Jiapu Pan and Willis J Tompkins. "A real-time QRS detection algorithm". In: IEEE transactions on biomedical engineering 3 (1985), pp. 230–236.
- [49] Dorairaj Prabhakaran, Panniyammakal Jeemon, and Ambuj Roy. "Cardiovascular diseases in India: current epidemiology and future directions". In: *Circulation* 133.16 (2016), pp. 1605–1620.
- [50] Saurabh Prakash and V Venkatesh. "Real time monitoring of ECG signal using PIC and web server". In: International Journal of Engineering and Technology (IJET) 5.2 (2013), pp. 1047–1053.
- [51] Saurabh Prakash and V Venkatesh. "Real time monitoring of ECG signal using PIC and web server". In: International Journal of Engineering and Technology (IJET) 5.2 (2013), pp. 1047–1053.

- [52] Jagdeep Rahul et al. "An improved cardiac arrhythmia classification using an RR interval-based approach". In: *Biocybernetics and Biomedical Engineering* 41.2 (2021), pp. 656–666.
- [53] Chanchal Raj, Chaman Jain, and Wasim Arif. "HEMAN: Health monitoring and nous: An IoT based e-health care system for remote telemedicine". In: 2017 International Conference on Wireless Communications, Signal Processing and Networking (WiSPNET). IEEE. 2017, pp. 2115–2119.
- [54] Heena Rehman and Md Iftekhar Ahmad. "COVID-19: quarantine, isolation, and lifestyle diseases". In: Archives of Physiology and Biochemistry (2020), pp. 1–5.
- [55] Arunabh Saikia et al. "Android Interface for Handling ECG Data from GE MAC 600 ECG System". In: 2020 International Conference on Computational Performance Evaluation (ComPE). IEEE. 2020, pp. 771–776.
- [56] Arunabh Saikia et al. "Android interface for handling ECG data from GE MAC 600 ECG system". In: 2020 International Conference on Computational Performance Evaluation (ComPE). IEEE. 2020, pp. 771–776.
- [57] Gianluigi Savarese and Lars H Lund. "Global public health burden of heart failure". In: *Cardiac failure review* 3.1 (2017), p. 7.
- [58] Muhammad Shabaan et al. "Survey: smartphone-based assessment of cardiovascular diseases using ECG and PPG analysis". In: BMC medical informatics and decision making 20.1 (2020), pp. 1–16.
- [59] Mohammad Shahidul Islam et al. "Monitoring of the human body signal through the Internet of Things (IoT) based LoRa wireless network system".
   In: Applied Sciences 9.9 (2019), p. 1884.
- [60] Mark J Shen and Douglas P Zipes. "Role of the autonomic nervous system in modulating cardiac arrhythmias". In: *Circulation research* 114.6 (2014), pp. 1004–1021.
- [61] Hiroaki Shimokawa et al. "Heart failure as a general pandemic in Asia". In: European journal of heart failure 17.9 (2015), pp. 884–892.

- [62] Koon K Teo and Hisham Dokainish. "The emerging epidemic of cardiovascular risk factors and atherosclerotic disease in developing countries". In: *Canadian Journal of Cardiology* 33.3 (2017), pp. 358–365.
- [63] Hana Thomas et al. "Global atlas of cardiovascular disease". In: *Glob Heart* 13 (2018), pp. 143–63.
- [64] Amit Kumar Tyagi et al. "Healthcare Solutions for the Next Generation: A Useful Explanation from the User's Perspective". In: Recent Trends in Blockchain for Information Systems Security and Privacy. CRC Press, 2021, pp. 175–217.
- [65] Trio Pambudi Utomo, Nuryani Nuryani, and Anto Satriyo Nugroho. "Automatic QRS-complex peak detector based on moving average and thresholding".
   In: Journal of Physics: Conference Series. Vol. 1153. 1. IOP Publishing. 2019, p. 012039.
- [66] Heena Varshney, Ali S Allahloh, and Mohammad Sarfraz. "IoT Based eHealth Management System Using Arduino and Google Cloud Firestore". In: 2019 International Conference on Electrical, Electronics and Computer Engineering (UPCON). IEEE. 2019, pp. 1–6.
- [67] Periaswamy Velavan et al. "Predictors of short term mortality in heart failure—insights from the Euro Heart Failure survey". In: International journal of cardiology 138.1 (2010), pp. 63–69.
- [68] Tao Wang et al. "Automatic ECG classification using continuous wavelet transform and convolutional neural network". In: *Entropy* 23.1 (2021), p. 119.
- [69] David E Ward. "Noninvasive electrocardiology: Clinical aspects of holter monitoring: edited by arthur j. moss and shiomo stern wb saunders, philadelphia (1996) 542 pages, illustrated, 59.00*isbn*: 9--7020--1925--9". In: *Clinical Cardiology* 20.3 (1997), p. 312.
- [70] Christopher X Wong et al. "Epidemiology of sudden cardiac death: global and regional perspectives". In: *Heart, Lung and Circulation* 28.1 (2019), pp. 6–14.
- [71] Christopher X Wong et al. "Epidemiology of sudden cardiac death: global and regional perspectives". In: *Heart, Lung and Circulation* 28.1 (2019), pp. 6–14.

- [72] Henian Xia, Irfan Asif, and Xiaopeng Zhao. "Cloud-ECG for real time ECG monitoring and analysis". In: Computer methods and programs in biomedicine 110.3 (2013), pp. 253–259.
- [73] Henian Xia, Irfan Asif, and Xiaopeng Zhao. "Cloud-ECG for real time ECG monitoring and analysis". In: Computer methods and programs in biomedicine 110.3 (2013), pp. 253–259.
- [74] Guangyu Xu. "IoT-assisted ECG monitoring framework with secure data transmission for health care applications". In: *IEEE Access* 8 (2020), pp. 74586– 74594.
- [75] Yun-Chi Yeh, Che Wun Chiou, and Hong-Jhih Lin. "Analyzing ECG for cardiac arrhythmia using cluster analysis". In: *Expert Systems with Applications* 39.1 (2012), pp. 1000–1010.
- [76] Hoe Tung Yew et al. "Iot based real-time remote patient monitoring system".
  In: 2020 16th IEEE international colloquium on signal processing & its applications (CSPA). IEEE. 2020, pp. 176–179.
- [77] Junyi Zhang, Yoshitsugu Hayashi, and Lawrence D Frank. "COVID-19 and transport: Findings from a world-wide expert survey". In: *Transport policy* 103 (2021), pp. 68–85.