

DAFTAR PUSTAKA

- [1] R. M. Carey *et al.*, *Definitions of RH*. 2018. doi: 10.1161/HYP.0000000000000084.
- [2] C. W. Tsao *et al.*, *Heart Disease and Stroke Statistics-2022 Update: A Report from the American Heart Association*, vol. 145, no. 8. 2022. doi: 10.1161/CIR.0000000000001052.
- [3] P. A. Heidenreich *et al.*, *2022 AHA/ACC/HFSA Guideline for the Management of Heart Failure: A Report of the American College of Cardiology/American Heart Association Joint Committee on Clinical Practice Guidelines*, vol. 145, no. 18. 2022. doi: 10.1161/CIR.0000000000001063.
- [4] P. A. Heidenreich *et al.*, “2022 AHA/ACC/HFSA Guideline for the Management of Heart Failure: A Report of the American College of Cardiology/American Heart Association Joint Committee on Clinical Practice Guidelines,” *J Am Coll Cardiol*, vol. 79, no. 17, pp. e263–e421, 2022, doi: 10.1016/j.jacc.2021.12.012.
- [5] P. Palatini *et al.*, “Reproducibility of Heart Rate Measured in the Clinic and With 24-hour Intermittent Recorders,” 2000.
- [6] P. Castiglioni, S. Omboni, and G. Parati, “Day and Night Changes of Cardiovascular,” *Entropy*, vol. 22, no. 462, pp. 1–18, 2020.
- [7] D. Makowiec, R. Gałaska, A. Rynkiewicz, and J. Wdowczyk-Szulc, “Autonomic heart rate control by multifractal tools,” *IFMBE Proc*, vol. 25, no. 4, pp. 1846–1849, 2009, doi: 10.1007/978-3-642-03882-2_490.
- [8] M. D. Padang, “Artikel Penelitian Gambaran Fungsi Ginjal pada Pasien Gagal Jantung dengan Fraksi Ejeksi Menurun dan Fraksi Ejeksi Normal di RSUP Dr .,” vol. 6, no. 3, pp. 627–633, 2017.
- [9] Oppie, “Menkes: Jumlah Dokter Spesialis Jantung dan Pembuluh Darah Jauh dari Kebutuhan.” [Online]. Available: <https://theopini.id/2022/11/10/menkes-jumlah-dokter-spesialis-jantung-dan-pembuluh-darah-jauh-dari-kebutuhan/>
- [10] D. Venes, *Taber’s Cyclopedic Medical Dictionary*, 21st ed. Philadelphia: F.A. Davis Company, 2009.
- [11] J. E. Hall and A. C. Guyton, *Textbook of Medical Physiology*, 12th ed. Mississippi: Saunders Elsevier, 2011.
- [12] C. S. C. A. E. L. Starr, *Biology, today and tomorrow with physiology*. Belmont, USA, 2010.
- [13] J. Ghassemi, *Anatomy, The Anatomical Basis of Clinical Practice*. 2019. doi: 10.1016/B978-0-323-50951-0.00024-4.

- [14] G. A. Roth *et al.*, “Global, Regional, and National Burden of Cardiovascular Diseases for 10 Causes, 1990 to 2015,” *J Am Coll Cardiol*, vol. 70, no. 1, pp. 1–25, 2017, doi: 10.1016/j.jacc.2017.04.052.
- [15] I. Graham *et al.*, “European guidelines on cardiovascular disease prevention in clinical practice: Executive summary - Fourth Joint Task Force of the European Society of Cardiology and Other Societies on Cardiovascular Disease Prevention in Clinical Practice (Constituted by ,” *Eur Heart J*, vol. 28, no. 19, pp. 2375–2414, 2007, doi: 10.1093/eurheartj/ehm316.
- [16] L. Maas *et al.*, “Automated medical reporting: From multimodal inputs to medical reports through knowledge graphs,” in *HEALTHINF 2021 - 14th International Conference on Health Informatics; Part of the 14th International Joint Conference on Biomedical Engineering Systems and Technologies, BIOSTEC 2021*, SciTePress, 2021, pp. 509–514. doi: 10.5220/0010261605090514.
- [17] J. L. Dan Longo, Anthony Fauci, Dennis Kasper, Stephen Hauser, J. Jameson, “Dan Longo, Anthony Fauci, Dennis Kasper, Stephen Hauser, J,” 2011.
- [18] H. Thomas *et al.*, “Global Atlas of Cardiovascular Disease 2000-2016: The Path to Prevention and Control,” *Glob Heart*, vol. 13, no. 3, pp. 143–163, 2018, doi: 10.1016/j.ghart.2018.09.511.
- [19] H. C. McGill, C. A. McMahan, and S. S. Gidding, “Preventing heart disease in the 21st century: Implications of the pathobiological determinants of atherosclerosis in youth (PDAY) study,” *Circulation*, vol. 117, no. 9, pp. 1216–1227, 2008, doi: 10.1161/CIRCULATIONAHA.107.717033.
- [20] Valentin Fuster, *Committee on Preventing the Global Epidemic of Cardiovascular Disease: Meeting the Challenges in Developing Countries Board on Global Health Valentin Fuster and Bridget B. Kelly, Editors.* 2010.
- [21] E. K. Yeoh *et al.*, “Benefits and limitations of implementing Chronic Care Model (CCM) in primary care programs: A systematic review,” *Int J Cardiol*, vol. 258, pp. 279–288, May 2018, doi: 10.1016/j.ijcard.2017.11.057.
- [22] Z. Germán-Salló and M. Germán-Salló, “Non-linear Methods in HRV Analysis,” *Procedia Technology*, vol. 22, pp. 645–651, 2016, doi: 10.1016/j.protcy.2016.01.134.
- [23] T. Kanaoka *et al.*, “Relationship of ambulatory blood pressure and the heart rate profile with renal function parameters in hypertensive patients with chronic kidney disease,” *Clin Exp Hypertens*, vol. 34, no. 4, pp. 264–269, Jul. 2012, doi: 10.3109/10641963.2012.681082.
- [24] M. Pagani *et al.*, “Changes in autonomic regulation induced by physical training in mild hypertension,” *Hypertension*, vol. 12, no. 6, pp. 600–610, 1988, doi: 10.1161/01.HYP.12.6.600.

- [25] M. A. Quiroz-Juárez, J. A. Rosales-Juárez, O. Jiménez-Ramírez, R. Vázquez-Medina, and J. L. Aragón, "ECG Patient Simulator Based on Mathematical Models," 2022. doi: 10.3390/s22155714.
- [26] M. P. Tarvainen, J. P. Niskanen, J. A. Lipponen, P. O. Ranta-aho, and P. A. Karjalainen, "Kubios HRV - Heart rate variability analysis software," *Comput Methods Programs Biomed*, vol. 113, no. 1, pp. 210–220, 2014, doi: 10.1016/j.cmpb.2013.07.024.
- [27] P. K. Stein, P. P. Domitrovich, H. V. Huikuri, and R. E. Kleiger, "Traditional and nonlinear heart rate variability are each independently associated with mortality after myocardial infarction," *J Cardiovasc Electrophysiol*, vol. 16, no. 1, pp. 13–20, 2005, doi: 10.1046/j.1540-8167.2005.04358.x.
- [28] F. Shaffer and J. P. Ginsberg, "An Overview of Heart Rate Variability Metrics and Norms," *Front Public Health*, vol. 5, no. September, pp. 1–17, 2017, doi: 10.3389/fpubh.2017.00258.
- [29] M. Malik *et al.*, "Heart rate variability: Standards of measurement, physiological interpretation, and clinical use," *Circulation*, vol. 93, no. 5, pp. 1043–1065, Mar. 1996, doi: 10.1161/01.cir.93.5.1043.
- [30] R. Sassi *et al.*, "Advances in heart rate variability signal analysis: Joint position statement by the e-Cardiology ESC Working Group and the European Heart Rhythm Association co-endorsed by the Asia Pacific Heart Rhythm Society," *Europace*, vol. 17, no. 9, pp. 1341–1353, 2015, doi: 10.1093/europace/euv015.
- [31] Y. Goto, T. Komatsu, T. Nakagawa, H. Noguchi, and T. Tsuda, "A new index of the autonomic nervous balance and its clinical usefulness; A power law 1/f like scale of a spectral analysis of the heart rate variability," *J Clin Monit Comput*, vol. 21, no. 1, pp. 21–30, 2007, doi: 10.1007/s10877-006-9054-8.
- [32] F. E. Yandra and R. Saputra, "Penggunaan aplikasi OriginPro untuk analisis spektrum gelombang Petir," *Jurnal Civronlit Unbari*, vol. 6, no. 1, p. 15, 2021, doi: 10.33087/civronlit.v6i1.81.
- [33] Guidelines, T. N. American, and Guidelines, "Guidelines Heart rate variability," *Eur Heart J*, vol. 17, pp. 354–381, 1996, doi: 10.1161/01.CIR.93.5.1043.
- [34] A. Stankus, A. Stankus, V. Stankus, R. Didziokas, and G. Varoneckas, "High Frequency Filtering of 24-Hour Heart Rate Data," *European Scientific Journal, ESJ*, vol. 9, no. 33, pp. 151–158, 2013.
- [35] J. E. Banchs and C. Teres, "Decomposition of Heart Rate Variability Spectrum into a Power-Law Function and a Residual Spectrum," vol. 3, no. June, pp. 1–10, 2016, doi: 10.3389/fcvm.2016.00016.
- [36] P. A. Heidenreich *et al.*, "2022 AHA/ACC/HFSA Guideline for the Management of Heart Failure: A Report of the American College of Cardiology/American Heart Association Joint Committee on Clinical Practice Guidelines," May 03, 2022, *Lippincott Williams and Wilkins*. doi: 10.1161/CIR.0000000000001063.

- [37] F. Ali *et al.*, “A Smart Healthcare Monitoring System for Heart Disease Prediction Based On Ensemble Deep Learning and Feature Fusion,” *Information Fusion*, vol. 63, Nov. 2020, doi: 10.1016/j.inffus.2020.06.008.
- [38] C. Forsberg and L. K. Wahren, “Normal oral , rectal , tympanic and axillary body temperature in adult men and women : a systematic literature review,” pp. 122–128, 2002.
- [39] P. Castiglioni, G. Parati, and A. Faini, “Can the Detrended Fluctuation Analysis Reveal Nonlinear Components of Heart Rate Variability,” *Proceedings of the Annual International Conference of the IEEE Engineering in Medicine and Biology Society, EMBS*, pp. 6351–6354, 2019, doi: 10.1109/EMBC.2019.8856945.
- [40] i and A. L. G. C.-K. Peng, S. V. Buldyrev, S. Havtin, i M. Simons, H. E. Stanley, “Mosaic organization of DNA nucleotides,” *Physical Review*, vol. 49, no. 6010, pp. 1687–1689, 1993.
- [41] B. B. Madelbrot, *Fractals and Chaos, The Mandelbrot Set and Beyond*. New York: Springer Science and Business Media B.V., 2004.
- [42] C. K. Peng, S. Havlin, H. E. Stanley, and A. L. Goldberger, “Quantification of scaling exponents and crossover phenomena in nonstationary heartbeat time series,” *Chaos*, vol. 5, no. 1, pp. 82–87, 1995, doi: 10.1063/1.166141.
- [43] S. Li, “Multifractal detrended fluctuation analysis of congestive heart failure disease based on constructed heartbeat sequence,” *IEEE Access*, vol. 8, pp. 205244–205249, 2020, doi: 10.1109/ACCESS.2020.3037080.
- [44] C. W. Tsao *et al.*, “Heart Disease and Stroke Statistics-2022 Update: A Report from the American Heart Association,” Feb. 22, 2022, *Lippincott Williams and Wilkins*. doi: 10.1161/CIR.0000000000001052.
- [45] L. M. Rigoli, T. Lorenz, C. Coey, R. Kallen, S. Jordan, and M. J. Richardson, “Co-actors Exhibit Similarity in Their Structure of Behavioural Variation That Remains Stable Across Range of Naturalistic Activities,” *Sci Rep*, vol. 10, no. 1, pp. 1–12, 2020, doi: 10.1038/s41598-020-63056-x.
- [46] G. Krstacic, G. Parati, D. Gamberger, P. Castiglioni, A. Krstacic, and R. Steiner, “Heart rate variability and nonlinear dynamic analysis in patients with stress-induced cardiomyopathy,” *Med Biol Eng Comput*, vol. 50, no. 10, pp. 1037–1046, 2012, doi: 10.1007/s11517-012-0947-z.
- [47] A. Mizobuchi, K. Osawa, M. Tanaka, A. Yumoto, H. Saito, and S. Fuke, “Detrended fluctuation analysis can detect the impairment of heart rate regulation in patients with heart failure with preserved ejection fraction,” *J Cardiol*, vol. 77, no. 1, pp. 72–78, 2021, doi: 10.1016/j.jjcc.2020.07.027.
- [48] M. Mateo-March, M. Moya-Ramón, A. Javaloyes, C. Sánchez-Muñoz, and V. J. Clemente-Suárez, “Validity of detrended fluctuation analysis of heart rate

- variability to determine intensity thresholds in elite cyclists,” *Eur J Sport Sci*, pp. 1–8, 2022, doi: 10.1080/17461391.2022.2047228.
- [49] J. Y. Chiang *et al.*, “Detrended Fluctuation Analysis of Heart Rate Dynamics Is an Important Prognostic Factor in Patients with End-Stage Renal Disease Receiving Peritoneal Dialysis,” 2016. doi: 10.1371/journal.pone.0147282.
- [50] P. Castiglioni, G. Parati, C. Lombardi, L. Quintin, and M. Di Rienzo, “Assessing the fractal structure of heart rate by the temporal spectrum of scale exponents: A new approach for detrended fluctuation analysis of heart rate variability,” *Biomedizinische Technik*, vol. 56, no. 4, pp. 175–183, 2011, doi: 10.1515/BMT.2011.010.
- [51] M. Schaffarczyk, B. Rogers, R. Reer, and T. Gronwald, “Validity of the Polar H10 Sensor for Heart Rate Variability Analysis during Resting State and Incremental Exercise in Recreational Men and Women,” *Sensors*, vol. 22, no. 17, 2022, doi: 10.3390/s22176536.
- [52] B. A. Voss, S. Schulz, R. Schroeder, M. Baumert, and P. Caminal, “Methods derived from nonlinear dynamics for analysing heart rate variability,” *Philosophical Transactions of the Royal Society A: Mathematical, Physical and Engineering Sciences*, vol. 367, no. 1887, pp. 277–296, 2009, doi: 10.1098/rsta.2008.0232.
- [53] T. H. Mäkikallio *et al.*, “Fractal analysis of heart rate dynamics as a predictor of mortality in patients with depressed left ventricular function after acute myocardial infarction,” *American Journal of Cardiology*, vol. 83, no. 6, pp. 836–839, 1999, doi: 10.1016/S0002-9149(98)01076-5.
- [54] H. V. Huikuri, T. H. Mäkikallio, C. K. Peng, A. L. Goldberger, U. Hintze, and M. Møller, “Fractal correlation properties of R-R interval dynamics and mortality in patients with depressed left ventricular function after an acute myocardial infarction,” *Circulation*, vol. 101, no. 1, pp. 47–53, 2000, doi: 10.1161/01.CIR.101.1.47.
- [55] I. Ahmad, E. Suwarni, R. I. Borman, Asmawati, F. Rossi, and Y. Jusman, “Implementation of RESTful API Web Services Architecture in Takeaway Application Development,” in *2021 1st International Conference on Electronic and Electrical Engineering and Intelligent System (ICE3IS)*, 2021, pp. 132–137. doi: 10.1109/ICE3IS54102.2021.9649679.
- [56] T. Pham, “Building an online shop application with MERN stack Title Number of Pages Date.”
- [57] J. Yasmin, Y. Tian, and J. Yang, “A First Look at the Deprecation of RESTful APIs: An Empirical Study,” in *2020 IEEE International Conference on Software Maintenance and Evolution (ICSME)*, 2020, pp. 151–161. doi: 10.1109/ICSME46990.2020.00024.
- [58] A. S. Ubaform and L. Iswari, “Penerapan React JS Pada Pengembangan FrontEnd.”

- [59] B. Mukti, "Optimasi User Interface Design menggunakan Arsitektur Single Page Application (SPA) sebagai Media Digital Marketing Pasca Pandemi Covid-19 Pada UMKM".
- [60] F. Muhammad, I. Fitri, and R. Nuraini, "Implementasi Customer Relationship Management (CRM) pada Sistem Informasi Pemasaran dengan Menggunakan Framework React.JS Berbasis Website," *Jurnal Teknologi Informasi dan Komunikasi*, vol. 6, no. 1, p. 2022, 2022, doi: 10.35870/jti.
- [61] M. Mehra, M. Kumar, A. Maurya, and C. Sharma, "MERN Stack Web Development," 2021. [Online]. Available: <http://annalsofscb.ro>
- [62] P. Castiglioni, S. Omboni, G. Parati, and A. Faini, "Day and night changes of cardiovascular complexity: A multi-fractal multi-scale analysis," *Entropy*, vol. 22, no. 4, Apr. 2020, doi: 10.3390/E22040462.
- [63] P. Palatini *et al.*, "Reproducibility of heart rate measured in the clinic and with 24-hour intermittent recorders," *Am J Hypertens*, vol. 13, no. 1, pp. 92–98, Jan. 2000, doi: 10.1016/S0895-7061(99)00170-3.
- [64] F. Ali *et al.*, "An intelligent healthcare monitoring framework using wearable sensors and social networking data," *Future Generation Computer Systems*, vol. 114, Nov. 2021, doi: 10.1016/j.future.2020.07.047.
- [65] R. Al-Amri, R. K. Murugesan, M. Man, A. F. Abdulateef, M. A. Al-Sharafi, and A. A. Alkahtani, "A review of machine learning and deep learning techniques for anomaly detection in iot data," Jun. 02, 2021, *MDPI AG*. doi: 10.3390/app11125320.
- [66] T. Gronwald and O. Hoos, "Correlation properties of heart rate variability during endurance exercise: A systematic review," Jan. 01, 2020, *Blackwell Publishing Inc*. doi: 10.1111/anec.12697.
- [67] B. Van Hooren, B. C. Bongers, B. Rogers, and T. Gronwald, "The Between-Day Reliability of Correlation Properties of Heart Rate Variability During Running," *Applied Psychophysiology Biofeedback*, vol. 48, no. 4, pp. 453–460, Dec. 2023, doi: 10.1007/s10484-023-09599-x.