DAFTAR PUSTAKA

A.D.A.M. Inc. 2021. "Polysomnography: MedlinePlus Medical Encyclopedia."
MedlinePlus. 2021. https://medlineplus.gov/ency/article/003932.htm.

AASM. 2008. "Obstructive Sleep Apnea." North Frontage Road Daren.

Ahmad, Norhafizan, Ariffin Raja Ghazilla, Nazirah M Khairi, and Vijayabaskar
Kasi. 2013. "Reviews on Various Inertial Measurement Unit (IMU) Sensor
Applications." *International Journal of Signal Processing Systems* 1, No.2:
6. https://doi.org/10.12720/ijsps.1.2.256-262.

Alsuwaidi, Alyazyah, Aisha Alzarouni, and Dana Bazazeh. 2016. "ECCE
Department Senior Design Project Wearable Posture Monitoring System
with Vibrational Feedback."

Amarappa, S, and S V Sathyanarayana. 2014. "Data Classification Using Support
Vector Machine (SVM), a Simplified Approach." *International Journal of
Electronics and Computer Science Engineering 3.4*. www.ijecse.org.

American Heart Association. 2015. "Electrocardiogram." Heart.Org. 2015.
https://www.heart.org/en/health-topics/heart-attack/diagnosing-a-heart-
attack/electrocardiogram-ecg-or-ekg.

Arduino. n.d. "How to Interface Arduino and the MPU 6050 Sensor." Accessed
December 2, 2020. https://maker.pro/arduino/tutorial/how-to-interface-
arduino-and-the-mpu-6050-sensor.

———. 2019. "Wire." Arduino. 2019. https://www.arduino.cc/en/reference/wire.

Athan, Nathan. 2005. "Snoring and the Evidence behind the Various Treatments
Available." *The Pharmaceutical Journal* 274: 309–12. www.pjonline.com.

Audicity. 2015. "How Audacity Noise Reduction Works." AudicityWiki. 2015.
https://wiki.audacityteam.org/wiki/How_Audacity_Noise_Reduction_Works.

Aydin, Mustafa, Remzi Altin, Ali Ozeren, Levent Kart, Mehmet Bilge, and Murat
Unalacak. 2004. "Cardiac Autonomic Activity in Obstructive Sleep Apnea:
Time-Dependent and Spectral Analysis of Heart Rate Variability Using 24-
Hour Holter Electrocardiograms - PubMed." National Library of Medicine.
February 2004. https://pubmed.ncbi.nlm.nih.gov/15212122/.

Ballester, Eugeni, Joan R. Badia, Lourdes Hernández, Eva Carrasco, Juan De
Pablo, Consol Fornas, Robert Rodriguez-Roisin, and Josep M. Montserrat.
1999. "Evidence of the Effectiveness of Continuous Positive Airway
Pressure in the Treatment of Sleep Apnea/Hypopnea Syndrome." *American*

Journal of Respiratory and Critical Care Medicine 159, no. 2: 495–501. https://doi.org/10.1164/ajrccm.159.2.9804061.

Bao, Ho Tu. 2012. "Kernel Methods and Support Vector Machines Content." Japan. http://www.jaist.ac.jp/~bao/VIASM-SML/Lecture/L3-Kernel methods and SVM.pdf.

Blibech, Hana, Ferdaous Yangui, Imen Kharrat, Hana Mrassi, Maher Abouda, and Mohamed Ridha Charfi. 2018. "Comparison of Three Questionnaires for Screening Obstructive Sleep Apnea Syndrome." *European Respiratory Journal* 52, no. suppl 62: PA2514. https://doi.org/10.1183/13993003.CONGRESS-2018.PA2514.

Blitzstein, Joe, Hanspeter Pfister, and Verena Kaynig-fittkau. 2014. "CS109 – Data Science."

Campos, Marcelo. 2019. "Heart Rate Variability: A New Way to Track Well-Being." Harvard Health Publishing Harvard Medical School. 2019. https://www.health.harvard.edu/blog/heart-rate-variability-new-way-track-well-2017112212789.

Chen, Lili, Xi Zhang, and Changyue Song. 2015. "An Automatic Screening Approach for Obstructive Sleep Apnea Diagnosis Based on Single-Lead Electrocardiogram." *IEEE Transactions on Automation Science and Engineering* 12, no. 1: 106–15. https://doi.org/10.1109/TASE.2014.2345667.

Choi, Jae-Kap, Michael Goldman, Sankar Koyal, and Glenn Clark. 2000. "Effect of Jaw and Head Position on Airway Resistance in Obstructive Sleep Apnea." *Sleep and Breathing* 4, no. 4: 163–68. https://doi.org/10.1007/s11325-000-0163-1.

Chrysostomakis, SI, EN Simantirakis, SE Schiza, IK Karalis, NC Klapsinos, and NM Siafakas. 2006. "Continuous Positive Airway Pressure Therapy Lowers Vagal Tone in Patients with Obstructive Sleep Apnoea-Hypopnoea Syndrome - PubMed." National Library Medicine. February 2006. https://pubmed.ncbi.nlm.nih.gov/16532711/.

Cummings, Clifford E, and Peter Alfke. n.d. "Simulation and Synthesis Techniques for Asynchronous FIFO Design with Asynchronous Pointer Comparisons Post-SNUG Editorial Comment (by Cliff Cummings)."

"Definitions and Terms." n.d. Piedmont Sleep Center. Accessed November 13, 2020. https://www.piedmontsleepcenter.com/definitions-and-terms.

Dimitri, Hany, Michelle Ng, Anthony G. Brooks, Pawel Kuklik, Martin K. Stiles, Dennis H. Lau, Nicholas Antic, et al. 2012. "Atrial Remodeling in Obstructive Sleep Apnea: Implications for Atrial Fibrillation." *Heart Rhythm*

9, no. 3: 321–27. https://doi.org/10.1016/j.hrthm.2011.10.017.

Farnsworth, Bryn. 2019. "Heart Rate Variability, How to Analyze ECG Data."
    IMotions. 2019. https://imotions.com/blog/heart-rate-variability/.

Goldberger, A, L Amaral, L Glass, J Hausdorff, PC Ivanoc, R Mark, JE Mietus,
    GB Moody, CK Peng, and HE Stanley. 2000. "Apnea-ECG Database."
    Physionet Bank. 2000. https://physionet.org/content/apnea-ecg/1.0.0/.

Gray, Dawn. 2020. "How To Read An Electrocardiogram." Nurse.Org. 2020.
    https://nurse.org/articles/how-to-read-an-ECG-or-EKG-electrocardiogram/.

Hamilton, Patrick S. 2002. "Open Source ECG Analysis Software
    Documentation." http://www.eplimited.com/.

Hubei Yong Qiang Fu Technology Industry. n.d. "3 Leads ECG Cable and
    Placement." Hubei Yong Qiang Fu Technology Industry. Accessed January
    19, 2021. https://www.conectmed.com/3-lead-ecg-and-placement.html.

IBM Cloud Education. 2020. "What Is Random Forest?" 2020.
    https://www.ibm.com/cloud/learn/random-forest.

Isa, Sani M, Mohamad Ivan Fanany, Wisnu Jatmiku, and Aniati Murni. 2010.
    "(PDF) Feature and Model Selection on Automatic Sleep Apnea Detection
    Using ECG." 2010.
    https://www.researchgate.net/publication/257748744_Feature_and_Model_S
    election_on_Automatic_Sleep_Apnea_Detection_using_ECG.

Jones, S. 2009. "Sleep Disordered Breathing and Mortality: Eighteen-Year
    Follow-up of the Wisconsin Sleep Cohort." *Yearbook of Pulmonary Disease*
    2009, no. 8: 291–92. https://doi.org/10.1016/s8756-3452(08)79181-3.

Jun, Jonathan C., Swati Chopra, and Alan R. Schwartz. 2016. "Sleep Apnoea."
    *European Respiratory Review : An Official Journal of the European
    Respiratory Society*. European Respiratory Society.
    https://doi.org/10.1183/16000617.0077-2015.

Kamath, Markad V., Mari A. Watanabe, and Adrian R.M. Upton. 2016. *Heart
    Rate Variability (HRV) Signal Analysis: Clinical Applications*. *Heart Rate
    Variability (HRV) Signal Analysis: Clinical Applications*.

Karki, Gaurab. 2018. "Electrocardiogram (ECG): Working Principle, Normal
    ECG Wave, Application of ECG." Online Biology Notes. 2018.
    https://www.onlinebiologynotes.com/electrocardiogram-ecg-working-
    principle-normal-ecg-wave-application-of-ecg/.

Khan, Tareq. 2019. "A Deep Learning Model for Snoring Detection and Vibration
    Notification Using a Smart Wearable Gadget." *Electronics* 8, no. 9: 987.

https://doi.org/10.3390/electronics8090987.

Kher, Rahul. 2019. "Signal Processing Techniques for Removing Noise from ECG Signals." *J Biomed Eng Res*. Vol. 3. http://creativecommons.org/licenses/by/3.0/,which.

Kristiansen, Stein, Mari Sønsteby Hugaas, Vera Goebel, Thomas Plagemann, Konstantinos Nikolaidis, and Knut Liestøl. 2018. "Data Mining for Patient Friendly Apnea Detection." *IEEE Access* 6: 74598–615. https://doi.org/10.1109/ACCESS.2018.2882270.

LeCun, Yann, Léon Bottou, Yoshua Bengio, and Patrick Haffner. 1998. "Gradient-Based Learning Applied to Document Recognition." *Proceedings of the IEEE* 86, no. 11: 2278–2323. https://doi.org/10.1109/5.726791.

Luman, Andy. 2016. "Obstructive Sleep Apnea (OSA) Pada DM Tipe 2." *Cdk-237* 43, no. 2: 96–100.

Maimon, Nimrod, and Patrick J. Hanly. 2010. "Does Snoring Intensity Correlate with the Severity of Obstructive Sleep Apnea?" *Journal of Clinical Sleep Medicine* 6, no. 5: 475–78. https://doi.org/10.5664/jcsm.27938.

Makofsky, Howard W. 1997. "Snoring and Obstructive Sleep Apnea: Does Head Posture Play a Role?" *Cranio* 15, no. 1: 68–73. https://doi.org/10.1080/08869634.1997.11745994.

Marple, S.Lawrence. 1987. *Digital Spectral Analysis: With Applications (Prentice-Hall Series in Signal Processing)*. Pretince Hall. http://www.amazon.com/Digital-Spectral-Analysis-Applications-Prentice-Hall/dp/0132141493.

Michael, Herzog, Schmidt Andreas, Bremert Thomas, Herzog Beatrice, Hosemann Werner, and Kaftan Holger. 2008. "Analysed Snoring Sounds Correlate to Obstructive Sleep Disordered Breathing." *European Archives of Oto-Rhino-Laryngology* 265, no. 1: 105–13. https://doi.org/10.1007/s00405-007-0408-8.

Najarian, Kayvan, and Robert Splinter. 2012. *Biomedical Signal and Image Processing, Second Edition*. http://books.google.com/books?hl=en&lr=&id=Gi-GOtnHAtAC&pgis=1.

Nakano, Hiroshi, Togo Ikeda, Makito Hayashi, Etsuko Ohshima, and Akihiro Onizuka. 2003. "Effects of Body Position on Snoring in Apneic and Nonapneic Snorers." *Sleep* 26, no. 2: 169–72. https://doi.org/10.1093/sleep/26.2.169.

Neto, João. 2013. "Support Vector Machines." 2013. http://www.di.fc.ul.pt/~jpn/r/svm/svm.html.

Niku, Saeed B. 2008. *Introduction To Robotics Analysis,Control,Applications*. *Journal of Chemical Information and Modeling*. Vol. 53.

Nussinovitch, Udi, Keren Politi Elishkevitz, Keren Katz, Moshe Nussinovitch, Shlomo Segev, Benjamin Volovitz, and Naomi Nussinovitch. 2011. "Reliability of Ultra-Short ECG Indices for Heart Rate Variability." *Annals of Noninvasive Electrocardiology* 16, no. 2: 117–22. https://doi.org/10.1111/j.1542-474X.2011.00417.x.

Oksenberg, Arie, Elena Arons, Khitam Nasser, Tatiana Vander, and Henryk Radwan. 2010. "REM-Related Obstructive Sleep Apnea: The Effect of Body Position." *Journal of Clinical Sleep Medicine* 6, no. 4: 343–48. https://doi.org/10.5664/jcsm.27875.

One Technology Way. n.d. "Single-Lead, Heart Rate Monitor Front-End, AD8232." Accessed January 18, 2021. https://www.analog.com/en/products/ad8232.html.

Piccin, Chaiane Facco, Daniela Pozzebon, Fabricio Scapini, and Eliane Castilhos Rodrigues Corrêa. 2016. "Craniocervical Posture in Patients with Obstructive Sleep Apnea." *International Archives of Otorhinolaryngology* 20, no. 3: 189–95. https://doi.org/10.1055/s-0036-1584295.

Qureshi, Asher, and Robert D. Ballard. 2003. "Obstructive Sleep Apnea." *Journal of Allergy and Clinical Immunology*. Mosby Inc. https://doi.org/10.1016/j.jaci.2003.08.031.

Rao, K.S, and K.E Manjunath. 2017. "Speech Recognition Using Articulatory and Excitation Source Features, SpringerBriefs in Speech Technology." *SpringerBriefs in Speech Technology*. https://doi.org/10.1007/978-3-319-49220-9.

Rokach, Lior, and Oded Maimon. 2005. "DECISION TREES." https://www.researchgate.net/publication/225237661_Decision_Trees.

Rosenthal, Lawrence, and Ely A Gracia. 2020. "Normal Electrocardiography (ECG) Intervals: Normal Electrocardiography Intervals." Medscape. 2020. https://emedicine.medscape.com/article/2172196-overview.

Rowberg, Jeff. 2012a. "I2C Device Library." Github. 2012. https://www.i2cdevlib.com/.

———. 2012b. "I2C Device Library Collection for AVR/Arduino or Other C++-Based MCUs." Github. 2012. https://github.com/jrowberg/i2cdevlib.

Sainburg, Tim. 2018. "Noise Reduction Using Spectral Gating in Python." 2018. https://timsainburg.com/noise-reduction-python.html#Noise-reduction-in-python-using.

———. 2020. "Noisereduce · PyPI." Pypi. 2020.
    https://pypi.org/project/noisereduce/.

Salman, Afan Galih. n.d. "Konsep Decision Tree & Random Forest." Accessed
    April 13, 2021. https://socs.binus.ac.id/2020/05/26/konsep-decision-tree-
    random-forest/.

Scikit Learn. 2020. "Support Vector Machines." Scikit-Learn 0.23.1
    Documentation. 2020. https://scikit-learn.org/stable/modules/svm.html.

Seppänen, Jarno. 1999. "Audio Signal Processing Basics." 1999.
    https://www.cs.tut.fi/sgn/arg/intro/basics.html.

Shenzhen Yong Qiang Fu Industry. n.d. "3 Leads ECG Cable and Placement."
    Connectmed Technologies. Accessed November 23, 2020.
    https://www.conectmed.com/3-lead-ecg-and-placement.html.

Siriwardhana, Chathuranga. 2019. "Sound Event Classification: A to Z."
    TowardsDataScience. 2019. https://towardsdatascience.com/sound-event-
    classification-using-machine-learning-8768092beafc.

"Sleep Apnea." 2020. National Heart, Lung and Blood Institute. 2020.
    https://www.nhlbi.nih.gov/health-topics/sleep-apnea.

Song, Yan Yan, and Ying Lu. 2015. "Decision Tree Methods: Applications for
    Classification and Prediction." *Shanghai Archives of Psychiatry* 27, no. 2:
    130–35. https://doi.org/10.11919/j.issn.1002-0829.215044.

Sparkfun. n.d. "AD8232 Heart Rate Monitor Hookup Guide." Sparkfun. Accessed
    November 23, 2020. https://learn.sparkfun.com/tutorials/ad8232-heart-rate-
    monitor-hookup-guide/all.

Stanford. n.d. "Convolutional Neural Networks Cheatsheet." Accessed January
    12, 2021. https://stanford.edu/~shervine/teaching/cs-230/cheatsheet-
    convolutional-neural-networks.

———. 2020. "Snoring." Stanford Health Care. 2020.
    https://stanfordhealthcare.org/medical-
    conditions/sleep/snoring/treatments.html.

Tetelepta, Salomon. 2018. "Exploring Heart Rate Variability Using Python |
    Kaggle." Kaggle. 2018. https://www.kaggle.com/stetelepta/exploring-heart-
    rate-variability-using-python.

Verma, Shiva. 2019. "Understanding 1D and 3D Convolution Neural Network |
    Keras." TowardsDataScience. 2019.
    https://towardsdatascience.com/understanding-1d-and-3d-convolution-
    neural-network-keras-9d8f76e29610.

Virtanen, Tuomas, Mark D Plumbey, and Dan Ellis. 2017. *Computational Analysis of Sound Scenes and Events*. https://www.google.co.id/books/edition/Computational_Analysis_of_Sound_ Scenes_a/luQ2DwAAQBAJ?hl=id&gbpv=1&dq=sound+analysis+machine+ learning&pg=PA9&printsec=frontcover.

Wang, Tao, Changhua Lu, Guohao Shen, and Feng Hong. 2019. "Sleep Apnea Detection from a Single-Lead ECG Signal with Automatic Feature-Extraction through a Modified LeNet-5 Convolutional Neural Network." *PeerJ* 2019, no. 9: 1–17. https://doi.org/10.7717/peerj.7731.

Yanuar, Aditya. 2018. "Fully-Connected Layer CNN Dan Implementasinya." Universitas Gadjah Mada Menara Ilmu Machine Learning. 2018. https://machinelearning.mipa.ugm.ac.id/2018/06/25/fully-connected-layer-cnn-dan-implementasinya/.

"Yaw, Pitch, and Roll Rotations." n.d. Accessed December 1, 2020. http://planning.cs.uiuc.edu/node102.html.

Zhang, Ye, and Byron C Wallace. 2015. "A Sensitivity Analysis of (and Practitioners' Guide to) Convolutional Neural Networks for Sentence Classification." http://nlp.stanford.edu/projects/.