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- [1] Admin, “What is a Brain Computer Interface?” 2023. [Online]. Available: <https://cumming.ucalgary.ca/research/pediatric-bci/bci-program/what-bci>
- [2] Vincentius, “KLASIFIKASI SINYAL P300 MENGGUNAKAN PRINCIPAL COMPONENT ANALYSIS, LINEAR DISCRIMINANT ANALYSIS, DAN SUPPORT VECTOR MACHINE,” Ph.D. dissertation, ITS, 2019.
- [3] U. Hoffmann, J. M. Vesin, T. Ebrahimi, and K. Diserens, “An efficient P300-based brain-computer interface for disabled subjects,” *Journal of Neuroscience Methods*, vol. 167, no. 1, pp. 115–125, 2008.
- [4] Admin, “MathWorks, “Decimation — decrease sample rate by integer factor.” [Online]. Available: <https://ch.mathworks.com/help/signal/ref/decimate.html>
- [5] K. Ang, Z. Chin, C. Wang, C. Guan, and H. Zhang, “Filter Bank Common Spatial Pattern Algorithm on BCI Competition IV Datasets 2a and 2b,” *Frontiers in neuroscience*, vol. 6, p. 39, mar 2012.
- [6] R. Wicklin, “Winsorization: The good, the bad, and the ugly,” 2017. [Online]. Available: <https://blogs.sas.com/content/iml/2017/02/08/winsorization-good-bad-and-ugly.html>
- [7] R. Gandhi, “Support Vector Machine — Introduction to Machine Learning Algorithms,” 2018. [Online]. Available: <https://towardsdatascience.com/support-vector-machine-introduction-to-machine-learning-algorithms-934a444fca47>
- [8] A. M. Khalimi, “Pengujian Data dengan Cross Validation,” 2020. [Online]. Available: <https://www.pengalaman-edukasi.com/2020/04/apa-itu-k-fold-cross-validation.html>
- [9] Admin, “Locked-in syndrome,” <https://rarediseases.info.nih.gov/diseases/6919/locked-in-syndrome>, 2021, accessed Jan. 19, 2023.
- [10] M. Prof. Dr. dr. Tjokorda Gde Bagus Mahadewa, “Mengenal Amyotrophic Lateral Sclerosis (Als): Penyakit Saraf Yang Melemahkan Tubuh,” 2022. [Online]. Available: [https://yankes.kemkes.go.id/view\\_{\\_}artikel/898/mengenal-amyotrophic-lateral-sclerosis-als-penyakit-saraf-yang-melemahkan-tubuh{#}:{~}:text=Kelemahanotlidahmenyebabkankesulitan,penyakityangmemburukdengancepat](https://yankes.kemkes.go.id/view_{_}artikel/898/mengenal-amyotrophic-lateral-sclerosis-als-penyakit-saraf-yang-melemahkan-tubuh{#}:{~}:text=Kelemahanotlidahmenyebabkankesulitan,penyakityangmemburukdengancepat).
- [11] J. J. Shih, D. J. Krusienski, and J. R. Wolpaw, “Brain-computer interfaces in medicine.” *Mayo Clinic proceedings*, vol. 87, no. 3, pp. 268–279, mar 2012.
- [12] N. Birbaumer, N. Ghanayim, T. Hinterberger, I. Iversen, B. Kotchoubey, A. Kübler, J. Perelmouter, E. Taub, and H. Flor, “A spelling device for the paralysed.” pp. 297–298, mar 1999.
- [13] R. Fazel-Rezai, B. Z. Allison, C. Guger, E. W. Sellers, S. C. Kleih, and A. Kübler, “P300 brain computer interface: Current challenges and emerging trends,” *Frontiers in Neuroengineering*, vol. 5, no. JUNE, pp. 1–30, 2012.



- [14] F. L.A. and E. Donchin, “Talking off the top of your head: toward a mental prosthesis utilizing event-related brain potentials,” *Electroencephalography and Clinical Neurophysiology*, vol. 70, pp. 510–523, 1998.
- [15] M. K. Alom and S. M. R. Islam, “Classification for the P300-based Brain Computer Interface (BCI),” *2020 2nd International Conference on Advanced Information and Communication Technology (ICAICT)*, pp. 387–391, 2020.
- [16] M. S. Patel, “A Comparative Study of Classification Techniques for P300 Speller,” *International Journal of Innovative Technology and Exploring Engineering*, vol. 9, no. 7S, pp. 102–106, 2020.
- [17] F. Farooq and P. Kidmose, “Random forest classification for p300 based brain computer interface applications,” in *21st European Signal Processing Conference (EU-SIPCO 2013)*, 2013, pp. 1–5.
- [18] S. Kundu and S. Ari, “P300 Detection with Brain–Computer Interface Application Using PCA and Ensemble of Weighted SVMs,” *IETE Journal of Research*, vol. 64, no. 3, pp. 406–414, 2018. [Online]. Available: <http://dx.doi.org/10.1080/03772063.2017.1355271>
- [19] Admin, “Science & Tech Spotlight: Brain-Computer Interfaces,” 2022. [Online]. Available: <https://www.gao.gov/products/gao-22-106118>
- [20] T. Picton W., “The P300 Wave of the Human Event-Related Potential,” pp. 456–479, 1992. [Online]. Available: [http://journals.lww.com/clinicalneurophys/Abstract/1992/10000/The\\_{\\_}P300\\_{\\_}Wave\\_{\\_}of\\_{\\_}the\\_{\\_}Human\\_{\\_}Event\\_{\\_}Related.2.aspx?%0Ahttp://www.ncbi.nlm.nih.gov/pubmed/1464675](http://journals.lww.com/clinicalneurophys/Abstract/1992/10000/The_{_}P300_{_}Wave_{_}of_{_}the_{_}Human_{_}Event_{_}Related.2.aspx?%0Ahttp://www.ncbi.nlm.nih.gov/pubmed/1464675)
- [21] S. Suwa, Y. Yin, G. Cui, T. Tanaka, and J. Cao, “A design method of an auditory p300 with p100 brain computer interface system,” in *2012 IEEE 11th International Conference on Signal Processing*, vol. 1, 2012, pp. 152–156.
- [22] S. Butterworth, “On the Theory of Filter Amplifiers. [https://www.changpuak.ch/electronics/downloads/On\\_the\\_Theory\\_of\\_Filter\\_Amplifiers.pdf](https://www.changpuak.ch/electronics/downloads/On_the_Theory_of_Filter_Amplifiers.pdf),” pp. 536–541, 1930. [Online]. Available: [https://www.changpuak.ch/electronics/downloads/On\\_{\\_}the\\_{\\_}Theory\\_{\\_}of\\_{\\_}Filter\\_{\\_}Amplifiers.pdf](https://www.changpuak.ch/electronics/downloads/On_{_}the_{_}Theory_{_}of_{_}Filter_{_}Amplifiers.pdf)
- [23] L. Milić, K. Klinger, L. Tosheff, and L. Milic, *Multirate Filtering for Digital Signal Processing: MATLAB Applications Information science reference Library of Congress Cataloging-in-Publication Data*. [Online]. Available: <http://www.eurospanbookstore.com>
- [24] H. U. Amin, R. Ullah, M. F. Reza, and A. S. Malik, “Single-trial extraction of event-related potentials (ERPs) and classification of visual stimuli by ensemble use of discrete wavelet transform with Huffman coding and machine learning techniques,” *Journal of NeuroEngineering and Rehabilitation*, vol. 20, no. 1, p. 70, 2023. [Online]. Available: <https://doi.org/10.1186/s12984-023-01179-8>
- [25] E. Noh, G. Herzmann, T. Curran, and V. R. de Sa, “Using single-trial EEG to predict and analyze subsequent memory.” *NeuroImage*, vol. 84, pp. 712–723, jan 2014.



- [26] A. Vahid, M. Mückschel, S. Stober, A.-K. Stock, and C. Beste, “Applying deep learning to single-trial EEG data provides evidence for complementary theories on action control,” *Communications Biology*, vol. 3, no. 1, p. 112, 2020. [Online]. Available: <https://doi.org/10.1038/s42003-020-0846-z>
- [27] A. Apicella, F. Isgrò, A. Pollastro, and R. Prevede, “On the effects of data normalization for domain adaptation on EEG data,” *Engineering Applications of Artificial Intelligence*, vol. 123, p. 106205, 2023. [Online]. Available: <https://www.sciencedirect.com/science/article/pii/S0952197623003895>
- [28] O. Akbulut, “Feature Normalization Effect in Emotion Classification based on EEG Signals,” *Sakarya University Journal of Science*, vol. 24, pp. 60–66, 2020. [Online]. Available: <https://api.semanticscholar.org/CorpusID:210138649>
- [29] Y. Kwak, W.-J. Song, and S.-E. Kim, “Deep feature normalization using rest state EEG signals for Brain-Computer Interface,” in *2021 International Conference on Electronics, Information, and Communication (ICEIC)*, 2021, pp. 1–3.
- [30] G. Cua and T. Heaton, *The Virtual Seismologist (VS) Method: a Bayesian Approach to Earthquake Early Warning*. Berlin, Heidelberg: Springer Berlin Heidelberg, 2007, ch. 4, pp. 97–132. [Online]. Available: [https://doi.org/10.1007/978-3-540-72241-0\\_{\\_}7](https://doi.org/10.1007/978-3-540-72241-0_{_}7)
- [31] C. C. Chang and C. J. Lin, “LIBSVM: A Library for support vector machines,” *ACM Transactions on Intelligent Systems and Technology*, vol. 2, no. 3, pp. 1–40, 2011.
- [32] W. Anugerah, “Perbedaan SVM Linear dan Non Linear: Mana yang Lebih Baik?” 2023. [Online]. Available: <https://www.localstartupfest.id/faq/perbedaan-svm-linear-dan-non-linear/>
- [33] Dinesh Kumar, “A Complete understanding of LASSO Regression,” 2023. [Online]. Available: <https://www.mygreatlearning.com/blog/understanding-of-lasso-regression/>
- [34] M. T. Carrillo-de-la Peña and F. Cadaveira, “The effect of motivational instructions on P300 amplitude.” *Neurophysiologie clinique = Clinical neurophysiology*, vol. 30, no. 4, pp. 232–239, aug 2000.
- [35] Admin, “Why use SVM?” 2017. [Online]. Available: <https://community.alteryx.com/t5/Data-Science/Why-use-SVM/ba-p/138440>