DAFTAR PUSTAKA

- [1] E. Faria, "Energy expenditure, aerodynamics and medical problems in cycling: an update," Sports

 Medicine, vol. 14, pp. 43–63, 1992.
- [2] S. Andriolo, M. Rummel, and T. Gronwald, "Relationship of cycling power and non-linear heart rate variability from everyday workout data: Potential for intensity zone estimation and moni-toring," Sensors, vol. 24, no. 14, p. 4468, 2024.
- [3] M. van Gastel, S. Zinger, H. Kemps, and P. de With, "Vision- based pose and heart rate detection for rehabilitation cycling," in 2015 IEEE International Conference on Consumer Electronics (ICCE), pp. 299–300, IEEE, 2015.
- [4] V. Kress, J. Jung, S. Zernetsch, K. Doll, and B. Sick, "Pose based start intention detection of cyclists," in 2019 IEEE Intelli- gent Transportation Systems Conference (ITSC), pp. 2381–2386, IEEE, 2019.
- [5] B. Wang and H. Zhu, "The recognition method of athlete exercise intensity based on ecg and pcg," Computational and Mathematical Methods in Medicine, vol. 2022, no. 1, p. 5741787, 2022.
- [6] L. Mathuseck, J. Go"tz, L. Busch, and K. David, "Bikesense: Riding behaviour recognition using an instrumented bicycle," in 2024 IEEE International Conference on Pervasive Computing and Communications Workshops and other Affiliated Events (PerCom Workshops), pp. 1–6, IEEE, 2024.
- [7] A. G. Putrada, M. Abdurohman, D. Perdana, and H. H. Nuha, "Human activity recognition improvement on smartphone ac- celerometers using cima," TEKTRIKA-Jurnal Penelitian dan Pengembangan Telekomunikasi, Kendali, Komputer, Elektrik, dan Elektronika, vol. 8, no. 2, pp. 75–83, 2023.
- [8] Y. Pamungkas and M. R. N. Ramadani, "Leveraging of recurrent neural networks architectures and smote for dyslexia prediction optimization in children," TELKOMNIKA (Telecommunication Computing Electronics and Control), vol. 22, no.

- 5, pp. 1178–1186, 2024.
- [9] J. Latheef and S. Vineetha, "Lstm model to predict customer churn in banking sector with smote data preprocessing," in 2021 2nd International Conference on Advances in Computing, Com- munication, Embedded and Secure Systems (ACCESS), pp. 86–90, IEEE, 2021.
- [10] P. Kallepally and M. Rajesh, "Lstm-based deep learning architecture for recognition of human activities," in Sentiment Analysis and Deep Learning: Proceedings of ICSADL 2022, pp. 163–172, Springer, 2023.
- [11] M. B. Abidine and B. Fergani, "Comparing hmm, Ida, svm and smote-svm algorithms in classifying human activities," in Proceedings of the Mediterranean Conference on Information & Communication Technologies 2015: MedCT 2015 Volume 2, pp. 639–644, Springer, 2016.
- [12] S. Shao, Y. Guan, X. Guan, P. Missier, and T. Plo"tz, "On training strategies for lstms in sensor-based human activity recognition," in 2023 IEEE International Conference on Pervasive Computing and Communications Workshops and other Affiliated Events (PerCom Workshops), pp. 653–658, IEEE, 2023.
- [13] M. Bieshaar, M. Depping, J. Schneegans, and B. Sick, "Starting movement detection of cyclists using smart devices," in 2018 IEEE 5th International Conference on Data Science and Ad- vanced Analytics (DSAA), pp. 313–322, IEEE, 2018.
- [14] Y.-M. Cheng and C.-L. Lee, "Persuasive and engaging design of a smartphone app for cycle commuting," mUX: The Journal of Mobile User Experience, vol. 4, pp. 1–5, 2015.
- [15] A. G. Putrada, "Gated recurrent unit for fall detection on motor- cycle smart helmet with accelerometer sensor," Indonesia Journal on Computing (Indo-JC), vol. 7, no. 3, pp. 21–32, 2022.
- [16] A. G. Putrada, N. Alamsyah, M. N. Fauzan, I. D. Oktaviani, and D. Perdana, "Gru for overcoming seasonality and trend in pm 2.5 air pollution forecasting," in 2023 Eighth International Conference on Informatics and Computing (ICIC), pp. 1–6, IEEE, 2023.
- [17] A. G. Putrada, N. Alamsyah, S. F. Pane, and M. N. Fauzan, "Gru- mf: A novel appliance classification method for non-intrusive load monitoring data," in 2022 IEEE International Confer- ence on Communication, Networks and Satellite (COMNETSAT), pp. 200–205, IEEE, 2022.

- [18] M. N. Fauzan, A. G. Putrada, N. Alamsyah, and S. F. Pane, "Pca-adaboost method for a low bias and low dimension toxic comment classification.," in 2022 International Conference on Advanced Creative Networks and Intelligent Systems (ICACNIS), pp. 1– 6, IEEE, 2022.
- [19] A. N. Iman, A. G. Putrada, S. Prabowo, and D. Perdana, "Pen- ingkatan kinerja amg8833 sebagai thermocam dengan metode regresi adaboost untuk pelaksanaan protokol covid-19," Jurnal Elektro Telekomunikasi Terapan, vol. 8, no. 1, pp. 978–985, 2021.
- [20] A. G. Putrada, N. Alamsyah, M. N. Fauzan, and D. Perdana, "Pca-svm for a lightweight asl hand gesture image recognition," in 2023 International Conference on Electrical Engineering and Informatics (ICEEI), pp. 1–6, IEEE, 2023.
- [21] A. G. Putrada, N. Alamsyah, S. F. Pane, M. N. Fauzan, and Perdana, "Auc maximization for flood attack detection on mqtt with imbalanced dataset," in 2023 International Conference on Information Technology Research and Innovation (ICITRI), pp. 133–138, IEEE, 2023.
- [22] X. Wang, S. Zhang, Y. Zhang, and Z. Yu, "Imbalanced radar micro-motion target classification based on k-means smote and deep residual network," in 2023 3rd International Symposium on Computer Technology and Information Science (ISCTIS), pp. 828–833, IEEE, 2023.
- [23] C. G. Tekkali and K. Natarajan, "An advancement in adasyn for imbalanced learning: An application to fraud detection in digital transactions," Journal of Intelligent & Fuzzy Systems, vol. 46, no. 5-6, pp. 11381–11396, 2024.
- [24] A. Logacjov, K. Bach, A. Kongsvold, H. B. Ba°rdstu, and P. J. Mork, "Harth: a human activity recognition dataset for machine learning," Sensors, vol. 21, no. 23, p. 7853, 2021.
- [25] K. Bach, A. Kongsvold, H. Ba°rdstu, E. M. Bardal, H. S. Kjærnli, S. Herland, A. Logacjov, and P. J. Mork, "A machine learning classifier for detection of physical activity types and postures during free-living," Journal for the Measurement of Physical Behaviour, vol. 5, no. 1, pp. 24–31, 2021.
- [26] A. Bogdanchikov, R. Suliyev, and B. Bolatov, "Implementing cycling training application for mobile devices," in 2016 IEEE 10th International Conference on Application of Information and Communication Technologies (AICT), pp. 1–3, IEEE, 2016.
- [27] O. Gaidos and I. dos Santos, "Mobile system of monitoring and training cyclists with

smartphone," in VI Latin American Congress on Biomedical Engineering CLAIB 2014, Parana', Ar- gentina 29, 30 & 31 October 2014, pp. 59–62, Springer, 2015.