

## DAFTAR PUSTAKA

- [1] World Health Organization (WHO), “World Health Organization (WHO), “Global status report on road safety 2018.” [Online]. Available: [https://www.who.int/violence\\_injury\\_prevention/road\\_safety\\_status/2018](https://www.who.int/violence_injury_prevention/road_safety_status/2018).
- [2] C. Ma, X. Dai, J. Zhu, N. Liu, H. Sun, and M. Liu, “DrivingSense: Dangerous Driving Behavior Identification Based on Smartphone Autocalibration,” *Mobile Information Systems*, vol. 2017. 2017, doi: 10.1155/2017/9075653.
- [3] M.A. Abousalem; E.J. Krakiwsky, *A quality control approach for GPS-based automatic vehicle location and navigation systems*. Institute of Electrical and Electronics Engineers, 1993.
- [4] E. J. Krakiwsky, “The Diversity among IVHS Navigation Systems Worldwide.” Proceedings of VNIS ’93 - Vehicle Navigation and Information Systems Conference, Canada, 1993, doi: 10.1109/VNIS.1993.585664.
- [5] L. Zhu, F. R. Yu, Y. Wang, B. Ning, and T. Tang, “Big Data Analytics in Intelligent Transportation Systems: A Survey,” *IEEE Trans. Intell. Transp. Syst.*, vol. 20, no. 1, pp. 383–398, 2019, doi: 10.1109/TITS.2018.2815678.
- [6] D. N. Lu, D. N. Nguyen, T. H. Nguyen, and H. N. Nguyen, “Vehicle mode and driving activity detection based on analyzing sensor data of smartphones,” *Sensors (Switzerland)*, vol. 18, no. 4, pp. 1–25, 2018, doi: 10.3390/s18041036.
- [7] J. F. Júnior., “Driver behavior profiling: An investigation with different smartphone sensors and machine learning,” *PLoS One*, vol. 12, no. 4, pp. 1–16, 2017, doi: 10.1371/journal.pone.0174959.
- [8] K. T. Nguyen, F. Portet, and C. Garbay, “Dealing with Imbalanced data sets for Human Activity Recognition using Mobile Phone sensors,” *3rd Int. Work. Smart Sens. Syst.*, 2018.
- [9] A. Jahangiri and H. A. Rakha, “Applying Machine Learning Techniques to Transportation Mode Recognition Using Mobile Phone Sensor Data,” *IEEE Trans. Intell. Transp. Syst.*, vol. 16, no. 5, pp. 2406–2417, 2015, doi: 10.1109/TITS.2015.2406241.

10.1109/TITS.2015.2405759.

- [10] X. Wu, X. Zhu, G. Q. Wu, and W. Ding, "Data mining with big data," *IEEE Trans. Knowl. Data Eng.*, vol. 26, no. 1, pp. 97–107, 2014, doi: 10.1109/TKDE.2013.109.
- [11] P. Patil, N. Yaligar, and S. Meena, "Comparision of Performance of Classifiers - SVM, RF and ANN in Potato Blight Disease Detection Using Leaf Images," *2017 IEEE Int. Conf. Comput. Intell. Comput. Res. ICCIC 2017*, pp. 1–5, 2018, doi: 10.1109/ICCIC.2017.8524301.
- [12] H. He and E. A. Garcia, "Learning from imbalanced data," *IEEE Trans. Knowl. Data Eng.*, vol. 21, no. 9, pp. 1263–1284, 2009, doi: 10.1109/TKDE.2008.239.
- [13] A. Ghazikhani, H. S. Yazdi, and R. Monsefi, "Class imbalance handling using wrapper-based random oversampling," *ICEE 2012 - 20th Iran. Conf. Electr. Eng.*, pp. 611–616, 2012, doi: 10.1109/IranianCEE.2012.6292428.
- [14] J. Yu, Z. Chen, Y. Zhu, Y. Jennifer Chen, L. Kong, and M. Li, "Fine-Grained Abnormal Driving Behaviors Detection and Identification with Smartphones," *IEEE Trans. Mob. Comput.*, vol. 16, no. 8, pp. 2198–2212, 2017, doi: 10.1109/TMC.2016.2618873.
- [15] A. Aljaafreh, N. Alshabat, and M. S. Najim Al-Din, "Driving style recognition using fuzzy logic," *2012 IEEE Int. Conf. Veh. Electron. Safety, ICVES 2012*, pp. 460–463, 2012, doi: 10.1109/ICVES.2012.6294318.
- [16] M. T. Egorovna and V. T. Nikolaevna, "Artificial intelligence in problems of leak definition from the oil pipeline," *Proc. 2014 Int. Conf. Mech. Eng. Autom. Control Syst. MEACS 2014*, pp. 1–4, 2014, doi: 10.1109/MEACS.2014.6986846.
- [17] A. Kuritsyn, M. Kharlamov, S. Prokhorov, and D. Shcherbinin, "Application of Artificial Intelligence Systems in the Process of Crew Training," *Proc. - 2018 Int. Conf. Artif. Intell. Appl. Innov. IC-AIAI 2018*, pp. 55–59, 2019, doi: 10.1109/IC-AIAI.2018.8674440.
- [18] M.-C. Yu, T. Yu, S.-C. Wang, C.-J. Lin, and E. Y. Chang, "Big data small

- footprint,” *Proc. VLDB Endow.*, vol. 7, no. 13, pp. 1429–1440, Aug. 2014, doi: 10.14778/2733004.2733015.
- [19] G. Kapil, A. Agrawal, and R. A. Khan, “A study of big data characteristics,” *Proc. Int. Conf. Commun. Electron. Syst. ICCES 2016*, pp. 1–4, 2016, doi: 10.1109/CESYS.2016.7889917.
- [20] C. K. Seo, J. H. Kim, and S. Y. Kwon, “A study on modeling using big data and deep learning method for failure diagnosis of system,” *Proceedings - 2018 IEEE International Conference on Big Data, Big Data 2018*, pp. 4747–4751, 2019, doi: 10.1109/BigData.2018.8622644.
- [21] B. Santosa and A. Umam, “Data Mining dan Big Data Analytics,” *Data Mining dan Big Data Analytics*, pp. 31–32, 2018.
- [22] E. Chuah, A. Jhumka, S. Narasimhamurthy, J. Hammond, J. C. Browne, and B. Barth, “Linking resource usage anomalies with system failures from cluster log data,” *Proc. IEEE Symp. Reliab. Distrib. Syst.*, pp. 111–120, 2013, doi: 10.1109/SRDS.2013.20.
- [23] H. Erol, B. M. Tyoden, and R. Erol, “Classification Performances of Data Mining Clustering Algorithms for Remotely Sensed Multispectral Image Data,” *2018 IEEE Int. Conf. Innov. Intell. Syst. Appl. INISTA 2018*, pp. 1–4, 2018, doi: 10.1109/INISTA.2018.8466320.
- [24] L. Gao and S. Ren, “Improvement of prediction ability of multicomponent regression model by a method based on data mining in chemometrics,” *Proc. - 2009 2nd Int. Work. Knowl. Discov. Data Mining, WKDD 2009*, no. 1, pp. 195–198, 2009, doi: 10.1109/WKDD.2009.82.
- [25] A. Abazeed, A. Mamat, M. N. Sulaiman, and H. Ibrahim, “Scalable approach for mining association rules from structured XML data,” *2009 2nd Conf. Data Min. Optim. DMO 2009*, no. October, pp. 5–9, 2009, doi: 10.1109/DMO.2009.5341918.
- [26] Q. Luo, “Advancing knowledge discovery and data mining,” *Proc. - 1st Int. Work. Knowl. Discov. Data Mining, WKDD*, pp. 3–5, 2008, doi: 10.1109/WKDD.2008.153.

- [27] J. Engelbrecht, M. J. Booysen, G. J. Van Rooyen, and F. J. Bruwer, "Survey of smartphone-based sensing in vehicles for intelligent transportation system applications," *IET Intell. Transp. Syst.*, vol. 9, no. 10, pp. 924–935, 2015, doi: 10.1049/iet-its.2014.0248.
- [28] X. Luo, Y. Xu, and F. Zhou, "Research on the integration of data warehouse, virtual reality and geographical information system in water resources management," *ICSDM 2011 - Proc. 2011 IEEE Int. Conf. Spat. Data Min. Geogr. Knowl. Serv.*, pp. 497–500, 2011, doi: 10.1109/ICSDM.2011.5969095.
- [29] M. Rinaldi, E. Picarelli, G. Laskaris, A. D'Ariano, and F. Viti, "Mixed hybrid and electric bus dynamic fleet management in urban networks: A model predictive control approach," *MT-ITS 2019 - 6th Int. Conf. Model. Technol. Intell. Transp. Syst.*, pp. 1–8, 2019, doi: 10.1109/MTITS.2019.8883387.
- [30] Y. A. Seliverstov, S. A. Seliverstov, V. I. Komashinskiy, A. A. Tarantsev, N. V. Shatalova, and V. A. Grigoriev, "Intelligent systems preventing road traffic accidents in megalopolises in order to evaluate," *Proc. 2017 20th IEEE Int. Conf. Soft Comput. Meas. SCM 2017*, pp. 489–492, 2017, doi: 10.1109/SCM.2017.7970626.
- [31] C. Jia, "Impact experiment analysis of MEMS ultra-high G piezoresistive shock accelerometer," *Proc. IEEE Int. Conf. Micro Electro Mech. Syst.*, vol. 2018-Janua, no. January, pp. 964–967, 2018, doi: 10.1109/MEMSYS.2018.8346718.
- [32] PHI – Produktionstechnik Hannover informiert, "Letak Module MEMS pada Smartphone." [Online]. Available: <https://www.phi-hannover.de/forschung/artikel/detail/biegsam-statt-starr-daten-speichern-auf-flexiblen-substraten/>. [Accessed: 20-Jun-2020].
- [33] M. Lobur and A. Holovatyy, "Overview and analysis of readout circuits for capacitive sensing in MEMS gyroscopes (MEMS angular velocity sensors)," *2009 Proc. 5th Int. Conf. Perspect. Technol. Methods MEMS Des.*

*MEMSTECH 2009*, pp. 161–163, 2009.

- [34] M. Rif, W. Djuriatno, D. N. Sulistiyanto, P. Siwindarto, and S. M. Aswin, “Pemanfaatan 3 axis Gyroscope L3G4200D untuk pengukuran Sudut Muatan Roket,” vol. 6, no. 2, pp. 177–182, 2012.
- [35] Y. Hu, Y. Wang, and Q. Zhao, “Research on micro SINS/GPS integrated navigation system based on MEMS sensors,” *Proc. - 2012 Int. Conf. Intell. Syst. Des. Eng. Appl. ISDEA 2012*, no. 1, pp. 1289–1293, 2012, doi: 10.1109/ISdea.2012.443.
- [36] A. Jiménez-Meza, J. Arámburo-Lizárraga, and E. de la Fuente, “Framework for Estimating Travel Time, Distance, Speed, and Street Segment Level of Service (LOS), based on GPS Data,” *Procedia Technol.*, vol. 7, pp. 61–70, 2013, doi: 10.1016/j.protcy.2013.04.008.
- [37] D. Milovzorov and V. Yasoveyev, “Mathematical modeling of the determining azimuth process for inclinometric systems for small incline angles,” *2016 2nd Int. Conf. Ind. Eng. Appl. Manuf. ICIEAM 2016 - Proc.*, pp. 1–4, 2016, doi: 10.1109/ICIEAM.2016.7911606.
- [38] A. M. S. Muniz, E. F. Manfio, M. C. Andrade, and J. Nadal, “Principal component analysis of vertical ground reaction force: A powerful method to discriminate normal and abnormal gait and assess treatment,” *Annu. Int. Conf. IEEE Eng. Med. Biol. - Proc.*, pp. 2683–2686, 2006, doi: 10.1109/IEMBS.2006.259820.
- [39] J. Xiaosong and H. Yijun, “Research on data pre-process and feature extraction based on wavelet packet analysis,” *Proc. World Congr. Intell. Control Autom.*, vol. 2, no. 1, pp. 5850–5853, 2006, doi: 10.1109/WCICA.2006.1714199.
- [40] T. Djatna and Y. Morimoto, “Pembandingan Stabilitas Algoritma Seleksi Fitur menggunakan Transformasi Ranking Normal,” *J. Ilmu Komput.*, vol. 6, no. 1–6, 2008.
- [41] T. Hasanin and T. M. Khoshgoftaar, “The effects of random undersampling with simulated class imbalance for big data,” *Proc. - 2018 IEEE 19th Int.*

- Conf. Inf. Reuse Integr. Data Sci. IRI 2018*, pp. 70–79, 2018, doi: 10.1109/IRI.2018.00018.
- [42] S. Dewi, “Komparasi 5 Metode Algoritma Klasifikasi Data Mining Pada Prediksi Keberhasilan Pemasaran Produk Layanan Perbankan,” *Techno Nusa Mandiri*, vol. XIII, no. 1, pp. 60–66, 2016, doi: 10.1037/a0034271.
- [43] J. Assuncao, P. Fernandes, L. Lopes, and S. Normey, “Distributed stochastic aware random forests - Efficient data mining for big data,” *Proc. - 2013 IEEE Int. Congr. Big Data, BigData 2013*, pp. 425–426, 2013, doi: 10.1109/BigData.Congress.2013.68.
- [44] C. Mehanian., “Computer-Automated Malaria Diagnosis and Quantitation Using Convolutional Neural Networks,” in *2017 IEEE International Conference on Computer Vision Workshops (ICCVW)*, 2017, pp. 116–125, doi: 10.1109/ICCVW.2017.22.
- [45] T. T. Wong and N. Y. Yang, “Dependency Analysis of Accuracy Estimates in k-Fold Cross Validation,” *IEEE Trans. Knowl. Data Eng.*, vol. 29, no. 11, pp. 2417–2427, 2017, doi: 10.1109/TKDE.2017.2740926.