

DAFTAR PUSTAKA

- Adira Insurance, 2020, *Kecelakaan Tinggi, Adira Insurance Tetap Gaungkan Keselamatan Berkendara Saat Pandemi*, <https://www.mobilinanews.com/amp/artikel/35208/Kecelakaan-Tinggi-Adira-Insurance-Tetap-Gaungkan-Keselamatan-Berkendara-Saat-Pandemi/> (online accessed: June 2nd, 2021).
- Ajzen, I., 1991, The Theory of Planned Behaviour, *Organizational Behavior and Human Decision Processes*, 50, 179-211.
- Ajzen, I., 2005, *Attitude, Personality, and Behavior*, 2nd ed, Open University Press, England.
- Ajzen, I., Fishbein, M., 1980, *Understanding Attitudes and Predicting Social Behavior*, Prentice-Hall, Englewood Cliffs, NJ.
- Ali, A., Ud-Din, S., Saad, S., Ammad, S., Rasheed, K., Ahmad, F., 2021, Artificial Neural Network Approach to Study the Effect of Driver Characteristics on Road Traffic Accidents, *International Conference on Data Analytics for Business and Industry*, Sakheer, Bahrain, 29 December 2021.
- Ansari, A., Ahmad, I. S., Bakar, A. A., Yaakub, A. M. R., 2020, A Hybrid Metaheuristic Method in Training Artificial Neural Network for Bankruptcy Prediction, *Institute of Electrical and Electronics Engineers*, 8, 176640-176650.
- Anshori, L., Ngeri, *Kecelakaan Lalu Lintas Penyebab Kematian Nomor 3 di RI*, <https://oto.detik.com/motor/d-4470269/ngeri-kecelakaan-lalu-lintas-penyebab-kematian-nomor-3-di-ri> (online accessed: February 11th, 2022).
- Atombo, C., Wu, C., Zhong, M., Zhang, H., 2016, Investigating the motivational factors influencing drivers intentions to unsafe driving behaviours: Speeding and overtaking violations, *Transportation Research Part F: Traffic Psychology and Behaviour*, 43, 104–121.
- Barkved, K., 2022, *How to Know if Your Machine Learning Model has Good Performance*, <https://www.obviously.ai/post/machine-learning-model-performance> (online accessed: March 10th, 2022).
- Bawono, L. M. S., Trapsilawati, F., 2021, Pengembangan Model Perilaku Mengebut di Indonesia serta Rekomendasi Pencegahannya, *Seminar Nasional Teknik dan Manajemen Industri*, Universitas Maranatha, Bandung, 11 November 2021.
- Beccaria, J., 1963, *On Crimes and Punishments (Introduction by H. Paolucci, Trans.)*, Macmillan, New York.
- Beucher, A., Moller, A. B., Greve, M. H., 2019, Artificial Neural Networks and Decision Tree Classification for Predicting Soil Drainage Classes in Denmark, *Geoderma*, 352, 351-359.
- Bengio, Y., 2012, Practical Recommendations for Gradient-Based Training of Deep Architectures. In: Montavon G., Orr G.B., Müller KR, *Neural Networks: Tricks of the Trade. Lecture Notes in Computer Science*, 7700, Springer, Berlin, Heidelberg.
- BPS, 2019, *Jumlah Kecelakaan, Korban Mati, Luka Berat, Luka Ringan, dan Kerugian Materi*, <https://www.bps.go.id/indicator/17/513/1/jumlah-kecelakaan-korban-mati-luka-berat-luka-ringan-dan-kerugian-materi.html> (online accessed: January 2nd, 2022).
- Boisson, C., al Maniri, A. A., Al-Azri, A. S., Hasselberg, M., dan Laflamme, L., 2019, Determinants of speeding among new generations of car drivers from

- the Arabian Peninsula. An investigation based among Omani drivers using the theory of planned behaviour, *PLoS ONE*, 14(12), 1–14.
- Brownlee, J., 2019, *How to Configure the Learning Rate When Training Deep Learning Neural Networks*, <https://machinelearningmastery.com/learning-rate-for-deep-learning-neural-networks/> (online accessed: December 22nd, 2020).
- Brownlee, J., 2021, *How to Choose an Activation Function for Deep Learning*, <https://machinelearningmastery.com/choose-an-activation-function-for-deep-learning/> (online accessed: December 22nd, 2020).
- Chakraverty, S., Mall, S., 2017, *Artificial Neural Networks for Engineers and Scientists: Solving Ordinary Differential Equations*, 1st ed, CRC Press.
- Chandwani, V., 2016, *Is there an ideal ratio between a training set and validation set? Which trade-off would you suggest?*, [https:// researchgate.net/post/Is-there-an-ideal-ratio-between-a-training-set-and-validation-set-Which-trade-off-would-you-suggest/](https://researchgate.net/post/Is-there-an-ideal-ratio-between-a-training-set-and-validation-set-Which-trade-off-would-you-suggest/) (online accessed: December 2nd, 2021).
- Cheng, Z., Lu, J., Zu, Z., Li, Y., 2019, Speeding Violation Type Prediction Based on Decision Tree Method: A Case Study in Wujiang, China, *Journal of Advanced Transportation*, 8650845.
- Cura, A., Kucuk, H., Ergen, E., Oksuzoglu, I. B., 2021, Driver Profiling Using Long Short Term Memory (LSTM) and Convolutional Neural Network (CNN) Methods, *IEEE Transactions on Intelligent Transportation Systems*, 22(10), 6572-6582.
- Das, S., Sun, X., Wang, F., Leboeuf, C., 2015, Estimating Likelihood of Future Crashes for Crash-Prone Drivers, *Journal of Traffic and Transportation Engineering*, 2(3), 145-157.
- Doshi, S., 2019, *Various Optimization Algorithms for Training Neural Networks*, <https://towardsdatascience.com/optimizers-for-training-neural-network-59450d71caf6> (online accessed: December 23rd, 2020).
- Doug, 2010, *How to choose the number of hidden layers and nodes in a feedforward neural network?*, <https://stats.stackexchange.com/questions/181/how-to-choose-the-number-of-hidden-layers-and-nodes-in-a-feedforward-neural-netw> (online accessed: December 2nd, 2021).
- Fishbein, M. dan Ajzen, I., 1975, *Belief, Attitude, Intention, and Behavior: An Introduction to Theory and Research*, Reading, MA: Addison-Wesley.
- Giles, M. J., 2004, Driver Speed Compliance in Western Australia: A Multivariate Analysis, *Transport Policy*, 11, 227-235.
- Ginanjari, D., 2021, *Kerugian Ekonomi Akibat Kecelakaan Mencapai Rp 47,8 Triliun*, <https://www.jawapos.com/oto-dan-teknologi/16/11/2021/kerugian-ekonomi-akibat-kecelakaan-mencapai-rp-478-triliun/> (online accessed: February 11th, 2022)
- Gonfalonieri, A., 2019, *5 Ways to Deal with the Lack of Data in Machine Learning*, <https://www.kdnuggets.com/2019/06/5-ways-lack-data-machine-learning.html> (online accessed: March 10th, 2022)
- Goodfellow, I., Bengio, Y., Courville, A., 2016, *Deep Learning*, The MIT Press.
- Guo, J., Liu, Y., Zhang, L., Wang, Y., 2018, Driving Behaviour Style Study with a Hybrid Deep Learning Framework Based on GPS Data, *Sustainability*, 10(7), 1-16.
- Homel, R., 1988, *Policing and Punishing the Drinking Driver: A Study of Specific and General Deterrence*, Springer-Verlag, New York.
- IBM Cloud Education, 2020, *Neural Networks*, <https://www.ibm.com/cloud/learn/neural-networks> (online accessed: May 5th, 2021).
- Indriastuti, A. K., Sulistio, H., 2010, Influencing factors on motorcycle accident in urban area of Malang, Indonesia, *International Journal of Academic Research*, 2(5), 252–255.

- Jaafari, A., Termeh, S. V. R., Bui, D. T., 2019, Genetic and Firefly Metaheuristic Algorithms for an Optimized Neuro-Fuzzy Prediction Modeling of Wildfire Probability, *Journal of Environmental Management*, 243, 358-369.
- Jaafari, A., Zenner, E. K., Panahi, M., Shahabi, H., 2019, Hybrid Artificial Intelligence Models Based on a Neuro-Fuzzy System and Metaheuristic Optimization Algorithms for Spatial Prediction of Wildfire Probability, *Agricultural and Forest Meteorology*, 266, 198-207.
- Jabon, M. E., Bailenson, J. N., Pontikakis, E., Takayama, L., Nass, C., 2011, Facial Expression Analysis for Predicting Unsafe Driving Behaviour, *IEEE Pervasive Computing*, 10(4), 84-95.
- Jamal, A., Umer, W., 2020, Exploring the Injury Severity Risk Factors in Fatal Crashes with Neural Network, *Environmental Research and Health Public*, 17(20).
- Juba, B., Le, H. S., 2019, Precision-Recall versus Accuracy and the Role of Large Data Sets, *Proceedings of the AAAI Conference on Artificial Intelligence*, 33(01), 4039-4048.
- Karri, S. L., De Silva, L. C., Lai, D. T. C., Yong, S. Y., 2021, Classification and Prediction of Driving Behaviour at a Traffic Intersection using SVM and KNN, *SN Computer Science*, 2(3).
- Knime, n.d., *Getting Started*, <https://www.knime.com/getting-started-guide#:~:text=In%20KNIME%20Analytics%20Platform%2C%20individual,creating%20visualizations%2C%20and%20so%20on.> (online accessed: May 5th, 2021).
- Kumar, P. S. K., Sumithra, M. G., Sranya, N., 2019, Particle Swarm Optimization (PSO) with fuzzy c means (PSO-FCM)-based segmentation and machine learning classifier for leaf diseases prediction, *Concurrency and Computation: Practice and Experience*, 33(3).
- Land Transport Safety Authority (LTSA), 2001, *Facts About Speed*, <https://www.ltsa.govt.nz/factsheets/33.html> (online accessed: October 2nd, 2020).
- Landis, J. R., Koch, 1977, The Measurement of Observer Agreement for Categorical Data, *Biometrics*, 33(1), 159-174.
- Lima-Junior, F. R., dan Carpinetti, L. C. R., 2019, Predicting Supply Chain Performance based on SCOR Metrics and Multilayer Perceptron Neural Networks, *International Journal of Production Economics*, 212, 19-38.
- Liputan6.com, 2021, *Kebut-Kebutan Bukan Penyebab Utama, Ini Biang Keladi Kasus Kecelakaan di Indonesia*, <https://www.liputan6.com/otomotif/read/4545221/kebut-kebutan-bukan-penyebab-utama-ini-biang-keladi-kasus-kecelakaan-di-indonesia> (online accessed: February 11th, 2022).
- Patel, M., Valderrama, C., Yadav, A., 2020, Metaheuristic Enabled Deep Convolutional Neural Network for Traffic Flow Prediction: Impact of Improved Lion Algorithm, *Journal of Intelligent Transportation Systems*.
- Penghui, L., Ewees, A. A., Beyaztas, B. M., Qi, C., Salih, S. Q., Al-Ansari, N., Bhagat, S. K., Yaseen, Z. M., Singh, V. P., 2020, Metaheuristic Optimization Algorithms Hybridized With Artificial Intelligence Model for Soil Temperature Prediction: Novel Model, *Institute of Electrical and Electronics Engineers*, 8, 51884-51904.
- Ridwan, M. F., 2018, *Kecelakaan Penyebab Kematian Terbesar Kedua di Indonesia*, <https://www.republika.co.id/berita/nasional/umum/18/10/21/pgxsol354-kecelakaan-penyebab-kematian-terbesar-kedua-di-indonesia> (online accessed: February 11th, 2022).
- Samudra, M. A., dan Wijaya, I., 2020, Angka Kematian Kecelakaan Lalu Lintas di Indonesia Tinggi, Tiap Satu Jam Tiga Orang Tewas,

- <https://otomotifnet.gridoto.com/read/232051060/angka-kematian-kecelakaan-lalu-lintas-di-indonesia-tinggi-tiap-satu-jam-tiga-orang-tewas> (diakses: 2 Februari 2021).
- Shariati, M., Mafipour, M. S., Mehrabi, P., Bahadori, A., Zandi, Y., Salih, M. N. A., Nguyem, H., Dou, J., Song, X., Ngian, S. P., 2019, Application of a Hybrid Artificial Neural Network-Particle Swarm Optimization (ANN-PSO) Model in Behavior Prediction of Channel Shear Connectors Embedded in Normal and High-Strength Concrete, *Applied Sciences*, 9(24), 1-22.
- Shahverdy, M., Fathy, M., Berangi, R., Sabokrou, M., 2020, Driver Behaviour Detection and Classification using Deep Convolutional Neural Networks, *Expert Systems With Applications*, 149, 113240.
- Silva, I. N., Spatti, D. H., Flauzino, R. A., Liboni, L. H. B., Alves, S. F. R., 2017, *Artificial Neural Networks: A Practical Course*, Switzerland: Springer International Publishing.
- Tang, J., Liu, F., Zhang, W., Ke, R., Zou, Y., 2017, Lane-Changes Prediction Based on Adaptive Fuzzy Neural Network, *Expert Systems with Applications*, 91, 452-463.
- Tang, J., Yu, S., Liu, F., Chen, X., Huang, H., 2019, A Hierarchical Prediction Model for Lane-Changes Based on Combination of Fuzzy C-Means and Adaptive Neural Network, *Expert Systems with Applications*, 130, 265-275.
- Truelove, V., Freeman, J., Szogi, E., Kaye, S., Davey, J., dan Armstrong, K., 2017, Beyond the threat of legal sanctions: What deters speeding behaviours? *Transportation Research Part F: Traffic Psychology and Behaviour*, 50, 128–136.
- Veeraraghavan, H. Atey, Bird, N. Schrater, P., Papanikolopoulos, N., 2005, Driver Activity Monitoring through Supervised and Unsupervised Learning, *Proceedings of the 8th International IEEE Conference on Intelligent Transportation Systems*, Vienna, Austria, September 13-16.
- West, P. M., Brockett, P. L., Golden, L. L., 1997, A Comparative Analysis of Neural Networks and Statistical Methods for Predicting Consumer Choice, *Marketing Science*, 16, 370-391.
- Wibawa, A.P., Purnama, M.G.A., Akbar, M.F., Dwiyanto, F.A., 2018, Metode-Metode Klasifikasi, *Pros. Semin. Ilmu Komput. dan Teknol. Inf*, 3, 134–138.
- Wijaya, C. Y., 2020, *5 SMOTE Techniques for Oversampling your Imbalance Data*, <https://towardsdatascience.com/5-smote-techniques-for-oversampling-your-imbalance-data-b8155bdbe2b5> (online accessed: December 22nd, 2020).
- Xiang, H., Zhu, J., Liang, G., Shen, Y., 2021, Prediction of Dangerous Driving Behavior Based on Vehicle Motion State and Passenger Feeling Using Cloud Model and Elman Neural Network, *Frontiers in neurorobotics*, 15, 641007.
- Zheng, B., Thompson, K., Lam, S. S., Yoon, S. W., 2013, Customers' Behavior Prediction Using Artificial Neural Network, *IIE Annual Conference and Expo 2013*, 700-709.
- Zhou, S., Chu, X., Cao, S., Liu, X., Zhou, Y., 2020, Prediction of the ground temperature with ANN, LS-SVM and fuzzy LS-SVM for GSHP application, *Geothermics*, 84.