



## DAFTAR PUSTAKA

- Al Jallad, F., Al-Katheeri, E., & Al-Omar, M. (2013). Concentrations of particulate matter and their relationships with meteorological variables. *J. Sustainable Environment Research*, 23(3), 191-198.
- Akgun, D. (2023). Working Principles of Convolutional Neural Networks in Keras.
- Anselin, L., & Getis, A. (1992). *Spatial statistical analysis and geographic information systems. The Annals of Regional Science*, 26, 19-33.
- Anselin, L. (1988). *Spatial Econometrics: Methods and Models*, Kluwer Academic Publishers, Dordrecht.
- Anton, H., & Rorres, C. (2014). *Elementary Linear Algebra: With Supplemental Applications*. John Wiley & Sons.
- Arma, S., Yanita, Y., & Bakar, N. N. (2019). Sifat-sifat operasi hadamard pada matriks. *Jurnal Matematika UNAND*, 7(4), 61-68.
- Aszemi, N. M., & Dominic, P. D. D. (2019). Hyperparameter optimization in convolutional neural network using genetic algorithms. *International Journal of Advanced Computer Science and Applications*, 10(6).
- Bhakti, H. D. (2019). Aplikasi Artificial Neural Network (ANN) untuk Memprediksi Masa Studi Mahasiswa Program Studi Teknik Informatika Universitas Muhammadiyah Gresik. *Jurnal Eksplora Informatika*, 9(1), 88-95.
- Bhanja, S., & Das, A. (2019). Deep learning-based integrated stacked model for the stock market prediction. *Int. J. Eng. Adv. Technol*, 9(1), 5167-5174.
- Brownlee, J. (2020). *Data preparation for machine learning: data cleaning, feature selection, and data transforms in Python*. Machine Learning Mastery.
- Caraka, R. E., & Yasin, H. (2017). Geographically weighted regression (GWR) sebuah pendekatan regresi geografis.



Cleveland, W. S. (1979). Robust locally weighted regression and smoothing scatterplots. *Journal of the American statistical association*, 74(368), 829-836.

Cressie, N. (1993). *Statistics for spatial data*. John Wiley & Sons.

Destryawan, D. (2024). 54 RT di Jakarta Kebanjiran Akibat Hujan Lebat Sabtu Kemarin. Diakses 8 Agustus 2024 dari <https://www.tribunnews.com/metropolitan/2023/11/05/54-rt-di-jakarta-kebanjiran-akibat-hujan-lebat-sabtu-kemarin-berikut-data-lengkapnya>.

Dinas Komunikasi, Informatika dan Statistik Provinsi DKI Jakarta. (2024). Satu Data Jakarta. Diakses 31 Maret 2024 dari <https://satudata.jakarta.go.id>.

Dinas Lingkungan Hidup Provinsi DKI Jakarta. (2023). *Laporan Pemantauan Kualitas Udara Tahun 2023*. Jakarta: DLH DKI Jakarta.

Du, Z., Wang, Z., Wu, S., Zhang, F., & Liu, R. (2020). Geographically neural network weighted regression for the accurate estimation of spatial non-stationarity. *International Journal of Geographical Information Science*, 34(7):1353-1377.

Fadhlurrahman, I. (2023). DKI Jakarta Paling Polusi di Indonesia Sore Ini (Sabtu, 2 Desember 2023). Diakses 21 Juni 2024 dari <https://databoks.katadata.co.id/datapublish/2023/12/02/dki-jakarta-paling-polusi-di-indonesia-sore-ini-sabtu-2-desember-2023>.

Fotheringham, A.S. Brundson, C., & Charlton, M. (2002). *Geographically Weighted Regression: Analysis of Spatially Varying Relationship*. John Wiley and Sons Ltd, England.

Gong, K., Han, S., Yang, X., Yu, W., & Guan, Y. (2023). TrafficSCINet: An Adaptive Spatial-Temporal Graph Convolutional Network for Traffic Flow Forecasting. In *International Conference on Intelligent Computing*, pages 628-639. Singapore: Springer Nature Singapore.

Hapsery, A., & Trishnanti, D. (2021). Aplikasi Geographically Weighted Regression (Gwr) Untuk Pemetaan Faktor Yang Mempengaruhi Indeks Aktivitas Li-



terasi Membaca Di Indonesia. *Jurnal Riset dan Aplikasi Matematika (JRAM)*, 5(2):80-91.

Heaton, J. (2020). Applications of deep neural networks with keras. *arXiv preprint arXiv:2009.05673*.

HiddeKanger. (2022). TensorFlow SCINet implementation with extensions for Advances in Deep Learning Leiden University 2022. Diakses 12 Mei 2024 dari <https://github.com/HiddeKanger/SCINet>.

Interactive Brains. (2024). Latitude and Longitude Information. Diakses 1 April 2024 dari <https://latlong.info>.

IQAir. (2023). *2023 World Air Quality Report*.

Jaya, H., Sabran, S., Idris, M., Djawad, Y. A., Ilham, A., & Ahmar, A. S. (2018). Kecerdasan Buatan.

Johnson, R. A., & Wichern, D. W. (2007). *Applied multivariate statistical analysis* (6th ed.). Pearson Prentice Hall, New York.

Kelleher, J. D. (2019). *Deep learning*. MIT press.

Klemmer, K., Safir, N. S., & Neill, D. B. (2023, April). Positional encoder graph neural networks for geographic data. In *International Conference on Artificial Intelligence and Statistics* (pp. 1379-1389). PMLR.

Leung, Y., Mei, C. L., & Zhang, W. X. (2000). Statistical tests for spatial nonstationarity based on the geographically weighted regression model. *Environment and Planning A*, 32(1), 9-32.

Li, R., Wang, X., Huang, G., Yang, W., Zhang, K., Gu, X., ... & Bai, Q. (2022). A comprehensive review on deep supervision: Theories and applications. *arXiv preprint arXiv:2207.02376*.

Lin, M. W., Ruan, S. J., & Tu, Y. W. (2020). A 3DCNN-LSTM hybrid framework for sEMG-based noises recognition in exercise. *IEEE Access*, 8, 162982-162988.



- Liu, M., Zeng, A., Xu, Z., Lai, Q., & Xu, Q. (2021). Time Series is a Special Sequence: Forecasting with Sample Convolution and Interaction. *arXiv preprint arXiv:2106.09305*, 1(9).
- Lu, B., Yang, W., Ge, Y., & Harris, P. (2018). Improvements to the calibration of a geographically weighted regression with parameter-specific distance metrics and bandwidths. *Computers, Environment and Urban Systems*, 71, 41-57.
- Ma, S., Guo, S., Wang, K., & Guo, M. (2019, July). Service demand prediction with incomplete historical data. In *2019 IEEE 39th International Conference on Distributed Computing Systems (ICDCS)* (pp. 912-922). IEEE.
- Mahajan, T., Singh, G., Bruns, G., Bruns, G., Mahajan, T., & Singh, G. (2021, March). An experimental assessment of treatments for cyclical data. In *Proceedings of the 2021 Computer Science Conference for CSU Undergraduates, Virtual* (Vol. 6, p. 22).
- Masini, R. P., Medeiros, M. C., & Mendes, E. F. (2023). Machine learning advances for time series forecasting. *Journal of economic surveys*, 37(1), 76-111.
- Mostafa, B. M., El-Attar, N., Abd-Elhafeez, S., & Awad, W. (2021). Machine and deep learning approaches in genome. *Alfarama Journal of Basic & Applied Sciences*, 2(1), 105-113.
- Muraina, I. (2022, May). Ideal dataset splitting ratios in machine learning algorithms: general concerns for data scientists and data analysts. In *7th international Mardin Artuklu scientific research conference* (pp. 496-504).
- Nwankpa, C., Ijomah, W., Gachagan, A., & Marshall, S. (2018). Activation functions: Comparison of trends in practice and research for deep learning. *arXiv preprint arXiv:1811.03378*.
- Olaofe, Z. (2021). Assessment of LSTM, Conv2D and ConvLSTM2D Prediction Models for Long-Term Wind Speed and Direction Regression Analysis.



- Oshan, T. M., Li, Z., Kang, W., Wolf, L. J., & Fotheringham, A. S. (2019). mgwr: A Python implementation of multiscale geographically weighted regression for investigating process spatial heterogeneity and scale. *ISPRS International Journal of Geo-Information*, 8(6), 269.
- Pamungkas, R. A., Yasin, H., & Rahmawati, R. (2016). Perbandingan Model GWR dengan Fixed dan Adaptive Bandwidth Untuk Persentase Penduduk Miskin di Jawa Tengah. *Jurnal Gaussian*, 5(3):535-544.
- Panagiotou, C. F., Kyriakidis, P., & Tziritis, E. (2022). Application of geostatistical methods to groundwater salinization problems: A review. *Journal of Hydrology*, 615, 128566.
- Picard, R. R., & Berk, K. N. (1990). Data splitting. *The American Statistician*, 44(2), 140-147.
- Puntodewo, A., Dewi, S., & Tarigan, J. (2003). *Sistem informasi geografis untuk pengelolaan sumberdaya alam*. CIFOR.
- Purba, Y. B. E., Saragih, N. F., Silalahi, A. P., Sitepu, S., & Gea, A. (2022). Perancangan Alat Pendekripsi Kematangan Buah Nanas Dengan Menggunakan Mikrokontroler Dengan Metode Convolutional Neural Network (CNN). *METHOTIKA: Jurnal Ilmiah Teknik Informatika*, 2(1), 13-21.
- Quraisy, A. (2020). Normalitas Data Menggunakan Uji Kolmogorov-Smirnov dan Shapiro-Wilk: Studi kasus penghasilan orang tua mahasiswa Prodi Pendidikan Matematika Unismuh Makassar. *J-HEST Journal of Health Education Economics Science and Technology*, 3(1), 7-11.
- Samuel, A. L. (1962). Artificial intelligence: a frontier of automation. *The Annals of the American Academy of Political and Social Science*, 340(1), 10-20.
- Soemartojo, S. M., Ghaisani, R. D., Siswantining, T., Shahab, M. R., & Ariyanto, M. (2018, September). Parameter estimation of geographically weighted regression (GWR) model using weighted least square and its application. In *AIP Conference Proceedings* (Vol. 2014, No. 1). AIP Publishing.



Sharma, S., Sharma, S., & Athaiya, A. (2017). Activation functions in neural networks. *Towards Data Sci*, 6(12), 310-316.

Tobler, W. R. (1979). Cellular geography. *Philosophy in geography*, 379-386.

Wang, L., Lee, C. Y., Tu, Z., & Lazebnik, S. (2015). Training deeper convolutional networks with deep supervision. *arXiv preprint arXiv:1505.02496*.

Wang, Z. J., Turko, R., Shaikh, O., Park, H., Das, N., Hohman, F., ... & Chau, D. H. P. (2020). CNN explainer: learning convolutional neural networks with interactive visualization. *IEEE Transactions on Visualization and Computer Graphics*, 27(2), 1396-1406.

Weather Underground. (2024). Weather Underground. Diakses 30 Maret 2024 dari <https://www.wunderground.com>.

World Health Organization. (2006). *WHO Air Quality Guidelines for Particulate Matter, Ozone, Nitrogen Dioxide and Sulfur Dioxide*. World Health Organization.

World Health Organization. (2021). *WHO Air Quality Guidelines for Particulate Matter, Ozone, Nitrogen Dioxide, Sulfur Dioxide and Carbon Monoxide*. World Health Organization.

World Health Organization. (2022a). Air pollution data portal. Diakses 19 April 2024, dari <https://www.who.int/data/gho/data/themes/air-pollution>.

World Health Organization. (2022b). *Compendium of WHO and other UN guidance on health and environment*. World Health Organization.

Xie, Y., Lv, J., Huang, W., He, P., Gu, J., Yao, W., & Chen, H. (2024, March). Improve Performance of Dilated Convolutional: A Zero-Split-Merge Solution. In *2024 IEEE 7th Advanced Information Technology, Electronic and Automation Control Conference (IAEAC)* (Vol. 7, pp. 1059-1062). IEEE.

Zhou, S., Xu, L., & Chen, N. (2023). Rice yield prediction in Hubei province based on deep learning and the effect of spatial heterogeneity. *Remote Sensing*, 15(5), 1361.