

DAFTAR PUSTAKA

- Aini, Zulfatul. (2023). Implementasi *Random Forest* dan *Gradient Boosting* pada Klasifikasi Indeks Pembangunan Manusia (IPM). Jakarta : Universitas Islam Negeri Syarif Hidayatullah.
- Alom, Z., Shahzad, A. K., & Shahzad, W. (2017). Performance Analysis of Statistical Pattern Recognition Methods in KEEL. *Procedia Computer Science*, 112, 2022 – 2030.
- Amalia, Nur Ihsan. (2020). Penentuan Lokasi Episentrum Gempa. Yogyakarta : Universitas Negeri Yogyakarta.
- Amigo, J. M. (2021). Data mining, machine learning, deep learning, chemometrics: Definitions, common points and trends (Spoiler Alert: VALIDATE your models!). *Brazilian Journal of Analytical Chemistry*, 8(32), 22–38.
- Ariestianty S.K., Taha, M.R., Nayan, K.A.M Dan Chik, Z. 2010. Penentuan Modulus Geser Menggunakan Metode Analisis Multichannel Gelombang Permukaan. Universitas Kebangsaan Malaysia: Selangor.
- Arimuko, A.,dkk. 2019. Model Kecepatan 1-D Gelombang P dan Gelombang S dari Data Hasil Relokasi Hiposenter di Wilayah Gunung Sinabung. *Jurnal Meteorologi Klimatologi dan Geofisika* 5(3).
- Braile, Lawrence W. (2006). Seismic Wave And Slinky. Indiana: Purdue University Contribute To The Migration Result. *Crewes Research Report* Vol. 13
- Budiman, Kholid. and Ifrizal, Yahya Nur. (2021). Analysis of Earthquake Forecasting using Random Forest. *Journal of Soft Computing Exploration*. Vol. 2, No. 2, September 2021 : 153 – 162. ISSN : 2088 – 8708
- Bulo, D., Djayus, Supriyanto, & Hendrawanto, B. (2020). Penentuan Titik Epicenter dan Hypocenter Serta Parameter Magnitude Gempa Bumi Berdasarkan Data Seismogram. *Jurnal Geosains Kutai Basin*, 3(1), 1–8.
- Cilimkovic, M. (2015). Neural Networks and back propagation algorithm. *Institute of Technology Blanchardstown, Blanchardstown Road North*

Dublin, 15, 1 – 12.

- Danakusumo, K. P. (2017). *Implementasi Deep Learning Menggunakan Convolutional Neural Network untuk Klasifikasi Citra Candi Berbasis GPU*. Fakultas Teknologi Industri Universitas Atma Jaya.
- DeMets, C., Gordon, R. G., Argus, D.F. and Stein, S. (1994). Effect of Recent Revisions to the Geomagnetic Reversal Time Scale on Estimates of Current Plate Motions. *Geophysical Research Letters* 21 : doi : 10.1029/94GL02118. ISSN : 0094 – 8276.
- DeMets, C., Gordon, R.G. dan Argus, D.F., 2010. Geologically current plate motions. *Geophysical Journal International*, 181(1), pp.1-80.
- Deng, L. & Yu, D., 2014, Deep Learning: Methods and Applications, Foundations and Trends in Signal Processing, 7, 3-4, 197-387.
- Dentith, Michael And Stephen Mudge. 2014. *Geophysics For The Mineral Exploration Geoscientist*. New York: Cambridge University Press
- Diansari, Angga Vertika., Prasetya, Bayu., Apriani, Mila., Ariyanto, Puji. dan Supartoyo. (2011). *Tatanan Tektonik Pulau Jawa, Bali, dan NTB*. Jakarta : Akademi Meteorologi dan Geofisika.
- Elnashai, S. A. Dan Sarno, D. L. 2008. *Fundamental Of Earthquake Engineering*. Wiley. Hongkong.
- Ghozali, I. (2016) Aplikasi Analisis Multivariete Dengan Program IBM SPSS 23. Edisi 8. Semarang: Badan Penerbit Universitas Diponegoro.
- Goodfellow, I., Bengio, Y., & Courville, A. (2016). *Deep Learning*. MIT Press.
- Grewal, P. (2014). A Critical Conceptual Analysis of Definitions of Artificial Intelligence as Applicable to Computer Engineering. *IOSR Journal of Computer Engineering*, 16, 9 – 13.
- Hadimoeljono, M. B., Sumadilga, D. H., Sabaruddin, A., & Irsyam, M. (2017). Peta Sumber Dan Bahaya Gempa Indonesia Tahun 2017. In M. Irsyam, S. Widiyantoro, D. H. Natawidjaja, & I. Meilano (Eds.), *Journal of Chemical Information and Modeling* (Pertama, Vol. 53, Issue 9). 2017.lo
- Hajar, Ibnu, 1996. Dasar-dasar Metodologi Penelitian Kuantitatif Dalam Pendidikan. Jakarta. PT. Raja Grafindo Persada.
- He, Y. – L., Zhang, X. – L., Ao, W., & Huang, J. Z. (2018). Determining the

- optimal temperature parameter for Softmax function in reinforcement learning. *Applied Soft Computing*, 70, 80 – 85.
- Ibrahim, G. Dan Subardjo. 2004. Buku Seismologi. Jakarta: Bmg.
- Joko, Christanto. 2011. Gempa Bumi, Kerusakan Lingkungan, Kebijakan Dan Strategi Pengelolaan. Yogyakarta: Liberty
- Karim, M. R. (2018). *Practical Convolutional Neural Networks : Implement advanced deep learning models using Python*. Birmingham : Packt Publishing.
- Kim, P. (2017). *MATLAB deep learning : with machine learning, neural networks and artificial intelligence*. New York, NY : Apress.
- Kurniawan, S. E., & Saputri, F. (2019). Relokasi Hipsenter Gempabumi Donggala Tahun 2018 Menggunakan Metode Hyporelocate. *Jurnal Meteorologi Klimatologi Dan Geofisika*, 6(1), 13–22.
- LeCun, Y., Bengio, Y., & Hinton, G. (2015). Deep learning. *Nature*, 521, 436. Nature Publishing Group, a division of Macmillan Publishers Limited. All Rights Reserved.
- Liparas, D., HaCohen-Kerner, Y., Mountzidou, A., Vrochidis, S. and Kompatsiaris, I., 2014, November. News articles classification using random forests and weighted multimodal features. In *Information Retrieval Facility Conference* (pp. 63-75). Springer, Cham.
- Louppe, G. (2014). Understanding Random Forest. Liège.
- Madrinovella, I., Widiyantoro, S., Nugraha, A.D. and Triastuty, H. (2012). Studi Penentuan dan Rekolasi Hipsenter Gempa Mikro Sekitar Cekungan Bandung. *Jurnal Geofisika*, Vol. 13 No.2, pp. 80–88.
- McCaffrey, R. and Nabelek, J. (1987). Earthquake, gravity, and the origin of the Bali Basin : An example of a Nascent Continental fold – and – thrust belt. *Journal of Geophysical Research* 92. doi : 10.1029/JB092iB01p00441. ISSN : 0148 – 0227.
- McCaffrey, R., 2009. The tectonic framework of the Sumatran subduction zone. *Annual Review of Earth and Planetary Sciences*, 37, hal.345-366.
- McCulloh, W., & Pitts, W. (1990). A logical calculus of the ideas immanent in nervous activity. *Bulletin of Mathematical Biology*, 52 (1 – 2), 99 – 115.

- Moolayil, J. (2019) *Learn Keras for deep neural networks : a fast – track approach to modern deep learning with Python*. New York, NY : Apress.
- Muttalib, Abdul., Mashur. (2019). Analisis Dampak Sosial Ekonomi Masyarakat Pasca Bencana Gempa Bumi di Kabupaten Lombok Utara (KLU). Ilmiah Mandala Education.
- Nielsen, M. A. (2015). *Neural Networks and Deep Learning* (Vol. 25). Determination press San Francisco, CA, USA.
- Nishi, K. (2005). Hypocenter Calculation Software GAD (Geiger's method with Adaptive Damping). Silver Expert JICA Indonesia, 1–5.
- Noor, Djauhari. (2005). Geologi Lingkungan. Yogyakarta: Graha Ilmu
- Nurwidjanto, I, M, dan Setiawan, A, 2011. Inversi linier leastsquare dengan Matlab (Studi Kasus Model Gravitasi Bola Berlapis). Jurnal Berkala Fisika 14(3): 93 -100
- Ramdhani, M., Priyobudi, Kristyawan, S., & Sembiring, A. S. (2020). Seismisitas di Wilayah Jawa Tengah dan Sekitarnya Berdasarkan Hasil Relokasi Hiposenter dari Empat Jaringan Seismik Menggunakan Model Kecepatan 3- D. Eksplorium, 41(1), 61–72.
- Reynolds, M. (1997). *An Introduction to Applied and Environmental Geophysics*. The University of Michigan.
- Saputri, D., & Pujiastuti, D. (2020). Analisis Kecocokan Nilai Percepatan Tanah Pulau Lombok Berdasarkan Perhitungan Empiris dengan Data Percepatan Tanah dari Akselerograf di Stasiun Mataram. Jurnal Fisika Unand, 9(1), 79– 84.
- Sarigül, M., Ozyildirim, B. M., & Avci, M. (2019). Differential convolutional neural network. *Neural Networks*, 116, 279 – 187.
- Sekaran, U. & Bougie, R.J., (2016). Research Methods for Business: A skill Building Approach. 7th Edition, John Wiley & Sons Inc. New York, US.
- Shalev – Shwartz, S., & Ben – David, S. (2013). Understanding machine learning : From theory to algorithms. In *Understanding Machine Learning : From Theory to Algorithms* (Vol. 9781107057135).
- Shearer, P. M. 2009. Introduction To Seismology. Cambridge university press.
- Shohaya, J. N., Madlazim, & Rahmawati, E. (2014). Model Kecepatan 1-D

- Gelombang P Dan Relokasi Hiposenter Gempa Bumi Di Bengkulu Menggunakan Metode Coupled Velocity Hipocenter. *Jurnal Fisika*, 3(2), 69–73.
- Sholihan, J. N., & Santosa, B. J. 2013. Analisis Dispersi Gelombang Rayleigh Struktur Geologi Bawah Permukaan Studi Kasus Daerah Pasir Putih Dalengan Gresik. *Jurnal Its Undergraduate*.
- Shukla, N. (2018). *Machine Learning with TensorFlow*. Shelter Island, NY : Manning Publication.
- Sianipar, D. S. J and Furqon., 2015. Model Kecepatan Lokal Gelombang P Satu Dimensi Wilayah Toba, Prosiding Seminar Nasional Fisika Universitas Andalas (SNFUA), 2015, pp. 110-116
- Silver,E.A., Breen, N.A. and H. Prasetyo. (1986,)Multibeam Study of the Flores BackArc Thrust Belt, Indonesia. *Journal of Geophysical Research*. Vol. 91, No. B3, pp. 3489-3500.
- Simandjuntak, T.O. & Barber, A.J., 1996. Contrasing tectonic style in the Neogene orogenic belts of Indonesia, in: Tectonic Evolution of Southeast Asia, eds. Hall & Blundell, Geological Society Spec. Publ. No. 106: 185-201.
- Soeria-atmadja, R., Bellon, R.C., Pringgoprawiro, H., Polve, M. Dan Priadi, B., 1994. Tertiary magmatic belt in Java, *J. SE Sci.*, v.9, n.1-2: 13-27.
- Srivastava, N.m Hinton, G., Krizhevsky, A., Sutskever, I., & Salakhutdinov, R. (2014). Dropout : a simple way to prevent neural networks from overfitting. *The Journal of Machine Learning Research*, 15 (1), 1929 – 1958.
- Subardjo., dan Ibrahim, G., 2004. Pengetahuan Seismologi. Jakarta: Badan Meteorologi dan Geofisika.
- Supartoyo Dan Surono, (2008). Katalog Gempabumi Merusak Di Indonesia Tahun 1629 – 2007, Pusat Vulkanologi Dan Mitigasi Bencana Geologi, Bandung.
- Suyanto. (2018). *Machine Learning Tingkat Dasar dan Lanjut*. Bandung : Informatika Bandung.
- Tantyoko, Hendri., Sari, Dian Kartika. dan Wijaya, Andreas Rony. (2023).

- Prediksi Potensial Gempa Bumi Indonesia Menggunakan Metode *Random Forest* dan *Feature Selection*. *Indonesia Journal Information System*. Vol. 6, No. 2, Julio 2023 : 83 – 89. ISSN : 2684 – 7280
- Telford, e. a. (1990). *Applied Geophysics Second Edition*.
- Telford, W., Geldart, L., & Sheriff, R. (1976). *Applied Geophysics 1st edition*. New York: Cambridge University Press.
- Van Bemmelen, R. W., 1970, *The Geologi of Indonsia*, vol. 1A, General Geologi of Indonesia andAdjacent Archipelagoes, 2nd ed, Martinus Nijhoff, the haque.
- Wadati, K. (1933). On the travel time of earthquake waves. *Geophysical Magazine*, 7, 101–111.
- Winardi. 2006. Penentuan Posisi Dengan GPS Untuk Survei Terumbu Karang. Jakarta. Puslit Oseanografi – Lipi.
- You, W., Shen, C., Guo, X., Jiang, X., Shi, J., & Zhu, Z. (2017). A hybrid technique based on convolutional neural network and support vector regression for intelligent diagnosis of rotating machinery. *Advances in Mechanical Engineering*, 9 (6), 1687814017704146. SAGE Publications Sage UK : London, England.
- Young, H. D. Dan Freedman, R. 2003. Fisika Universitas Edisi Kesepuluh Jilid 1. Jakarta: Erlangga.
- Yu, R., & Si, L. (2018). A user – based taxonomy for deep learning visualization. *Visual Informatics*, 2 (3), 147 – 154.
- Zaharchuk, G., Gong, E., Wintermark, M., Rubin, D., & Langlotz, C. P. (2018). Deep Learning in Neuroradiology. *American Journal of Neuroradiology*, 39 (10), 1776 – 1784.
- Zhang, X., Zhang, J., Yuan, C., Liu, S., Chen, Z., & Li, W. (2018). Locating Earthquakes with a Network ogf Seismic Stations Via a Deep Learning Method. *Sci. Rep. 10 1941* (2020). Cornell University, New York, USA.