

DAFTAR PUSTAKA

- Akgün, A., & Türk, N. (2010). Landslide Susceptibility Mapping for Ayvalik (Western Turkey) and its Vicinity by Multicriteria Decision Analysis. *Environmental Earth Sciences*, 61(3), 595–611. <https://doi.org/10.1007/s12665-009-0373-1>
- Alqadhi, S., Javed, M., Swapan, T., Ahmed A. B., Nguyen, V. H., & Tamal Kanti, S. (2022). Selecting Optimal Conditioning Parameters for Landslide Susceptibility: an Experimental Research on Aqabat Al-Sulbat, Saudi Arabia. *Environmental Science and Pollution Research* (2022), 29:3743–3762
- Ansar, A.S., & Sudha, S. (2020). Prediction of Earthquake Induced Landslide Using Deep Learning Models. *Proceedings of the 5th International Conference on Computing, Communication and Security (ICCCS)*.
- Arnone E., Francipane A., Scarbaci A., Puglisi C., & Noto, L.V. (2016). Effect of Raster Resolution and Polygon-Conversion Algorithm on Landslide Susceptibility Mapping. *Environ Modell Softw*, 84:467–481. <https://doi.org/10.1016/j.envsoft.2016.07.016>
- Ayalew & Yamagishi. (2005). The Application of GIS-based Logistic Regression for Landslide Susceptibility Mapping in the Kakuda-Yahiko Mountains, Central Japan. *Geomorphology*, 65(1–2), 15–31
- Badan Informasi Geospasial. (2015). *SNI 8202:2015 tentang Spesifikasi ketelitian peta dasar*. Jakarta: Badan Standardisasi Nasional.
- Badan Nasional Penanggulangan Bencana. (2013). *Indeks Risiko Bencana Indonesia (IRBI) 2013*. Jakarta: BNPB.
- Baguley, T. (2012). Pseudo- R^2 and related measures. In T. Baguley, *Serious Stats: A guide to advanced statistics for the behavioral sciences* (pp. 437–440). Palgrave Macmillan. https://doi.org/10.1007/978-0-230-57718-3_4
- Berkson, J. (1944). Application of the Logistic Function to Bio-Assay. *Journal of the American Statistical Association*, 39(227), 357–365
- Beven, K. J., & Kirkby, M. J. (1979). A Physipemkabcally Based, Variable Contributing-area Model of Basin Hydrology. *Hydrological Sciences Bulletin*, 24(1), 43–69
- Blair, T. C., & McPherson, J. G. (2009). *Processes and Forms of Alluvial*

- Fans*. In A.J. Parsons & A.D. Abrahams (Eds.), *Geomorphology of Desert Environments (2nd ed., pp. 413-414)*.
- BNPB. (2024). *Data Kejadian Bencana Indonesia*. Diakses dari <https://inarisk.bnpb.go.id/databencana/index.html> diakses pada 9 September 2024
- BPBD Kabupaten Magelang. (2024). *Data Bencana*. Diakses dari <https://sikk.magelangkab.go.id/> pada 9 September 2024
- BPS. (2024). *Kabupaten Magelang Dalam Angka 2023*. Jakarta : BPS
- Brenning, A., Schwinn, M., Ruiz-Páez, A. P., & Muenchow, J. (2015). Landslide Susceptibility Near Highways is Increased by 1 Order of Magnitude in the Andes of Southern Ecuador, Loja Province. *Natural Hazards and Earth System Sciences*, 15, 45–57. <https://doi.org/10.5194/nhess-15-45-2015>
- Campbell, J., & Shin, M. (2011). *Essentials of Geographic Information Systems*. Irvington, NY: FlatWorld Knowledge. ISBN-13: 978-1453330234
- Cellek, S. (2022). Linear Parameters Causing Landslides: A Case Study of Distance to the Road, Fault, Drainage. *Kocaeli Journal of Science and Engineering*, 6(2): (2023) 94-113
- Chen, Z., Ye, F., Fu, W., Ke, Y., & Hong, H. (2020). The Influence of DEM Spatial Resolution on Landslide Susceptibility Mapping in The Baxie River Basin, NW China. *Natural Hazards*, 101(3), 853–877. <https://doi.org/10.1007/s11069-020-03899-9>
- De Rosa, P., Andrea, F., & Corrado, C. (2019). Stream Power Determination in GIS: An Index to Evaluate the Most 'Sensitive' Points of a River. *Water*, 11 : 1145
- Earth Observation Research and Application Center & Japan Aerospace Exploration Agency. (2008). *ALOS Data Users Handbook: Revision C*. Jepang : Japan Aerospace Exploration Agency
- Egan, J.P. (1975). *Signal Detection Theory and ROC Analysis*. New York: Acad 195:266–268
- Farr, T. G., Rosen, P. A., Caro, E., Crippen, R., Duren, R., Hensley, S., Kobrick, M., Paller, M., Rodriguez, E., Roth, L., Seal, D., Shaffer, S., Shimada, J., Umland, J., Werner, M., Oskin, M., Burbank, D., & Alsdorf, D. (2007). The Shuttle Radar Topography Mission. *Reviews of Geophysics*, 45(2).
- Ferreira, Z. A., & Cabral, P. (2021). *Vertical accuracy assessment of ALOS*

- PALSAR, GMTED2010, SRTM and Topodata Digital Elevation Models*. Dalam C. Grueau, R. Laurini, & L. Ragia (Eds.), *Proceedings of the 7th International Conference on Geographical Information Systems Theory, Applications and Management (GISTAM 2021)* (hlm. 116–124). *SciTePress – Science and Technology Publications*
- Filho, A. C. D., & Rossetti, D. F. (2012). Effectiveness of SRTM and ALOS-PALSAR Data for Identifying Morphostructural Lineaments in Northeastern Brazil. *Brazilian Journal of Geology*, 42(1), 81–96. <https://doi.org/10.5327/Z2317-48892012000100007>
- Fleming, C., Marsh, S.H., & Giles, J.R.A. (2010). *Elevation Models for Geoscience*. London : The Geological Society
- Ganesh, B., Vincent, S., Pathan, S., & Benitez, SRG. (2023). Machine Learning Based Landslide Susceptibility Mapping Models and GB - SAR Based Landslide Deformation Monitoring Systems : Growth and Evolution. *Remote Sensing Applications: Society and Environment*, 29, 100905
- Gharehchahi, S. (2017). Volcanic Processes and Landforms. Dalam D. Richardson, N. Castree, M. F. Goodchild, A. Kobayashi, W. Liu, & R. A. Marston (Eds.), *The International Encyclopedia of Geography* (pp. 1-9). John Wiley & Sons.
- Guth, P.L., Adrian, V.N., Carlos, H.G., Peter, M., Laurence, H., Igor, V.F., Dekan, G., Hannes, I.R., Virginia, H.C., Serge, R., Carlos, L.V., Caludia, C.C., Clement, A., & Peter, S. (2021). Digital Elevation Models: Terminology and Definitions. *Remotesensing*, 13(18) : 1-19.
- Guzzetti, F., Cardinali, M., Reichenbach, P., & Carrara, A. (2000). Comparing Landslide Maps : A Case Study in the Upper Tiber River Basin, Central Italy. *Environmental Management*, 25(3), 247-263. <https://doi.org/10.1007/s002679910020>
- Guzzetti, F., Mondini, A.C., Cardinali, M., Fiorucci, F., Santangelo, M., & Chang, K.-T. (2012). Landslide Inventory Maps : New Tools for an Old Problem. *Earth Sciences Reviews*, 112(1-2), 42-66. <https://doi.org/10.1016/j.earscirev.2012.02.001>
- Grohmann, CH. (2015). Effects of Spatial Resolution on Slope and Aspect Derivation for Regional-Scale Analysis. *Comput Geosci* 77:111 117. <https://doi.org/10.1016/j.cageo.2015.02.003>
- Hadmoko, D. S., Nugraha, H., Suryani, T., Marfai, M. A., Widiyanto, Nurzaha, R., Mutaqin, B. W., Dipayana, G. A., Yulianto, F., Susmayadi, I. M., & Khomarudin, M. R. (2014). Kerusakan Bangunan

- Pengendali Sedimen di Kali Pabelan. *In Prosiding Pertemuan Ilmiah Tahunan XVII Ikatan Geograf Indonesia*. Yogyakarta: 15–17 November 2014
- Hengl, Tomislav. (2006). Finding the Right Pixel Size. *Computers & Geosciences*, 32(2006) :1283–1298
- Hirt, C., Filmer, M. S., & Featherstone, W. E. (2010). Comparison and Validation of the Recent Freely-Available Digital Elevation Models ASTER-GDEM Ver1, SRTM Ver4.1, and GEODATA DEM-9S Ver3 over Australia. *Australian Journal of Earth Sciences*, 57(3), 337–347. <https://doi.org/10.1080/08120091003677553>
- Hong, H.Y., Shahabi, H., Shirzadi, A., Chen, W., Chapi, K., Bin Ahmad, B., Roodposhti, M.S., Hesar, A.Y., Tian, Y.Y., & Bui, D.T. (2019b). Landslide Susceptibility Assessment at the Wuning Area, China: A Comparison Between Multi-Criteria Decision Making, Bivariate Statistical and Machine Learning methods. *Nat. Hazards* 96, 173–212.
- Hosmer DW, Lemeshow S., & Sturdivant, RX. (2013). *Applied Logistic Regression*. New York : John Wiley & Sons
- Huang, S., & Liping, C. (2024). Landslide Susceptibility Mapping Using an Integration of Different Statistical Models for the 2015 Nepal Earthquake in Tibet. *Geomatics, Natural Hazards and Risk*, 15(1) : 1-33. <https://doi.org/10.1080/19475705.2024.2396908>
- Iswari, M., & Kasih, A. (2018). DEMNAS : Model Digital Ketinggian Nasional untuk Aplikasi Kepesisiran. *Oseana*, 43(4) 2018 : 68 - 80
- Jacobs, L., Kervyn, M., Reichenbach, P., Rossi, M., Marchesini, I., Alvioli, M., & Dewitte, O. (2020). Regional Susceptibility Assessments with Heterogeneous Landslide Information: Slope Unit- vs. Pixel-Based Approach. *Geomorfologi*. 356 :107084.
- Jahanbani, M., Mohammad, H.V., Hossein, A., & Zahra, A. (2024). Flood Susceptibility Mapping Through Eoinformatics and Ensemble Learning Methods, with an Emphasis on the AdaBoost-Decision Tree Algorithm, in Mazandaran, Iran. *Earth Science Informatics*, 17 :1433–1457. <https://doi.org/10.1007/s12145-023-01213-2>
- Komac, M. (2012). Regional Landslide Susceptibility Model Using the Monte Carlo Approach - The Case of Slovenia. *Geological Quarterly*, 56, pp. 41-54.

- Lee, S., & Pradhan B. (2007). Landslide Hazard Mapping at Selangor, Malaysia using Frequency Ratio and Logistic Regression Models. *Landslides*, 4:33–41
- Li, R., & Wang, N. (2019). Landslide Susceptibility Mapping for the Muchuan County (China): A Comparison Between Bivariate Statistical Models (WoE, EBF, and IoE) and Their Ensembles with Logistic Regression. *Symmetry* 11:762. <https://doi.org/10.3390/sym11060762>
- Lokesh. P., Madhesh, C., Aneesh, M., & Padala, R. S. (2024). Machine Learning and Deep Learning-Based Landslide Susceptibility Mapping using Geospatial Techniques in Wayanad, Kerala State, India. *HydroResearch*, doi.org/10.1016/ j.hydrres.2024.10.001
- Malamud., Bruce., Donald, L. T., Fausto, G., & Paola, R. (2003). Landslide Inventories and Their Statistical Properties. *Earth Surf, Process, Landforms* 29, 687–711
- McFadden, D. (1974). Conditional logit analysis of qualitative choice behavior. In P. Zarembka (Ed.), *Frontiers in econometrics* (pp. 105–142). New York : Academic Press.
- Meena, S. R., & Thimmaiah, G. N. (2019). Impact of Spatial Resolution of Digital Elevation Model on Landslide Susceptibility Mapping: A Case Study in Kullu Valley, Himalayas. *Geosciences*, 9, 360; doi:10.3390/geosciences9080360
- Menard, S. (2000). Coefficients of Determination for Multiple Logistic Regression Analysis. *The American Statistician, Febuary 2000, Vol. 54*(1)
- Mey, J., Ravi, K. G., Alexander, P., Igo, S. D., & Wolfgang, S. (2024). More Than one Landslide per Road Kilometer – Surveying and Modeling Mass Movements Along the Rishikesh–Joshimath (NH-7) Highway, Uttarakhand, India. *NHESS*, 24, 3207–3223, 2024
- Miliaresis, G. C. (2008). The Landcover Impact on the Aspect/Slope Accuracy Dependence of the SRTM-1 Elevation Data for the Humboldt Range. *Sensors* 2008, 8, 3134-3149
- Moore, I. D., Grayson, R. B., & Ladson, A. R. (1991). Digital Terrain Modelling: A Review of Hydrological, Geomorphological and Biological Applications. *Hydrological Processes*, 5(1), 3–30.
- Nagelkerke, N. J. D. (1991). A Note on a General Definition of the Co efficient of Determination. *Biometrika*, 78, 691-692.

- Nasir, M. N. (2024). Analysis of land cover change in Magelang Regency And Magelang City over 15 years. *Jurnal Bisnis Kehutanan dan Lingkungan JBKL* 2(1): 1–16
- Ngo, P.T.T., Panahi, M., Khosravi, K., Ghorbanzadeh, O., Kariminejad, N., Cerda, A., & Lee, S. (2021). Evaluation of Deep Learning Algorithms for National Scale Landslide Susceptibility Mapping of Iran. *Geoscience. Front.* 12, 505–519.
- Noor, D. (2009). *Geologi Lingkungan*. Yogyakarta: Graha Ilmu
- Ohlmacher, Gregory, C. (2007). Plan Curvature and Landslide Probability in Regions Dominated by Earth Flows and Earth Slides. *Engineering Geology*, 91 (2007) : 117–134
- Paudel, N., Hamal, R., & Poudel, K. R. (2020). Landslide Susceptibility Assessment: Identification and Hazard Mapping of Gandaki Province, Nepal. *Prithvi Academic Journal*, 3, 11–21. <https://doi.org/10.3126/paj.v3i0.29555>
- Pemerintah Republik Indonesia. (2007). *Undang-Undang Republik Indonesia Nomor 24 Tahun 2007 tentang Penanggulangan Bencana*. Lembaran Negara Republik Indonesia Tahun 2007 Nomor 66.
- Pemerintah Kabupaten Magelang. (2010). *Geografis: Kondisi Geografis Wilayah Kabupaten Magelang*. Magelang : Bappeda Magelang
- Pemerintah Kabupaten Magelang. (2019). *Rencana Pembangunan Jangka Menengah Daerah (RPJMD) Kabupaten Magelang Tahun 2019–2024*. Bappeda Kabupaten Magelang.
- Pham, B.T., Tien, Bui D., Indra P., & Dholakia, M. (2015). Landslide Susceptibility Assessment at a Part of Uttarakhand Himalaya, India Using GIS-Based Statistical Approach Of Frequency Ratio Method. *Int J Eng Res Technol.*, 4, pp. 338–344.
- Pham, BT., Prakash, I., & Tien, Bui D. (2018). Spatial Prediction of Land Slides Using A Hybrid Machine Learning Approach Based on Random Subspace and Classification and Regression Trees. *Geomorphology*, 303:256–270. <https://doi.org/10.1016/j.geomorph.2017.12.008>
- Pourghasemi, H.R., Mohammady, M., & Pradhan, B. (2012). Landslide Susceptibility Mapping Using Index of Entropy and Conditional

- Probability Models in GIS: Safarood Basin, Iran. *Catena*, vol 97 : 71-84. <https://doi.org/10.1016/j.catena.2012.05.005>.
- Pourghasemi, H. R., H. R. Moradi, & S. M. Fatemi Aghda. (2013). Landslide Susceptibility Mapping by Binary Logistic Regression, Analytical Hierarchy Process, and Statistical Index Models and Assessment of their Performances. *Nat Hazards* (2013) 69:749–779
- Pourghasemi, H. R., Pradhan, B., Gokceoglu, C., Mohammadi, M., Moradi, H. R. (2012). Larger Sample Sizes Increase Model Reliability and Factor Significance. Using Small Landslide Inventories Yields Unstable Regression Coefficients and P-Values. *Geomorphology*, 136(1), 1–15.
- Pradipta, T. (2017). *Geo Image (Spatial–Ecological–Regional)*. Semarang : Universitas Negeri Semarang.
- Priyatmoko, H., Sampurno, S. R. L. Aji & Adji, F. T. (2022). Sejarah Kekuasaan di Magelang: Era Klasik hingga Kolonial. *Prosiding Seminar Nasional Ilmu Sosial dan Teknologi (SNISTEK)*, Vol. 4, hlm. 55–62 .
- Rabby, Y. W., Ishtiaque, A., & Rahman, S. (2020). Evaluating the Effects of Digital Elevation Models in Landslide Susceptibility Mapping in Rangamati District, Bangladesh. *Remote Sens.* 2020, 12, 2718; doi:10.3390/rs1217271
- Rahardjo, W., Sukandarrumidi., & Rosidi, H. M. D. (1995). *Peta Geologi Lembar Yogyakarta, Jawa (skala 1:100 000)*. Pusat Penelitian dan Pengembangan Geologi, Bandung.
- Reichenbach, P., Rossi, M., Malamud, B. D., Mihir, M., & Guzzetti, F. (2018). A Review of Statistically-Based Landslide Susceptibility Models. *Earth-Science Reviews*, 180, 60–91.
- Rosso, R., Maria C. R., & Giovanni, V. (2006). A Physically Based Model for the Hydrologic Control on Shallow Landsliding. *Water Resour. Res.*, 42, W06410, doi:10.1029/2005WR004369
- Rosenqvist, A., Masanobu, S., & Manabu, W. (2004). ALOS PALSAR: Technical Outline and Mission Concepts. *4th International Symposium on Retrieval of Bio- and Geophysical Parameters from SAR Data for Land Applications Innsbruck, Austria*, November 16-19, 2004

- Samatan, S., & Heri, S. (2023). Pemanfaatan DEM-SRTM dan DEMNAS Sebagai Dasar Simulasi Hujan-Debit di DAS Kaliwadas. *Jurnal Ilmiah Desain dan Konstruksi Vol. 22* (1), Juni 2023
- Samodra, G. (2024). *Teknologi Geospasial Inventarisasi Longsor*. Yogyakarta : UGM Press
- Sartohadi, J. (2012). *Pengantar Geografi Tanah* (cet. 2). Yogyakarta: Pustaka Pelajar.
- Schlögel, R., Marchesini, I., Alvioli, M., Reichenbach, P., Rossi, M., & Malet, J.P. (2018). Optimizing Landslide Susceptibility Zonation: Effects of DEM Spatial Resolution and Slope Unit Delineation on Logistic Regression Models. *Geomorphology* 2018, 301, 10–20.
- Shou, Y., Deying, L., Yiqing, S., dan Xiangjie, S. (2024). Effect of Landslide Spatial Representation and Raster Resolution on the Landslide Susceptibility Assessment. *Environmental Earth Sciences*, (2024) 83:132 <https://doi.org/10.1007/s12665-024-11442-3>
- Sun, D.L., Xu, J.H., Wen, H.J., & Wang, Y. (2020c). An Optimized Random Forest Model and Its Generalization Ability in Landslide Susceptibility Mapping: Application in Two Areas of Three Gorges Reservoir. China. *J. Earth Sci-China* 31, 1068–1086.
- Taşoğlu İ.K., Keskin Çıtıroğlu H., & Mekik Ç., (2016). GIS-based Landslide Susceptibility Assessment: A Case Study in Kelemen Valley (Yenice-Karabuk, NW Turkey). *Environmental Earth Sciences*, 75, pp. 1295.
- Thaden, R. E., Sumardirdja, H., & Richards, P. W. (1975). *Geologic map of the Magelang and Semarang quadrangles, Java*. Indonesia Geological Survey Map
- Tian, Y., Xiao, C., Liu, Y., Wu, L. (2008). Effects of Raster Resolution on Landslide Susceptibility Mapping: A Case Study of Shenzhen. *Sci. China Ser. E Technol. Sci*, 51, 188–198
- Tu, J. V. (1996). Advantages and disadvantages of using artificial neural networks versus logistic regression for predicting medical outcomes. *Journal of Clinical Epidemiology*, vol 49 (11) : 1225-1231
- Van Bemmelen, R. W. (1949). *The geology of Indonesia: Vol. 1A: General geology of Indonesia and adjacent archipelagoes*. Government Printing Office & Martinus Nijhoff.

- Van Westen, C. J., Rengers, N., & Soeters, R. (2003). Use of Geomorphological Information in Indirect Landslide Susceptibility Assessment. *Natural Hazards*, 30, pp. 399-419.
- Van Westen, C. J., Van Asch, T. W. J., & Soeters, R. (2006). Landslide Hazard and Risk Zonation – Why is it Still so Difficult?. *Bulletin of Engineering Geology and the Environment*, 65 (2), 167–184. doi:10.1007/s10064-005-0023-0
- Varnes, D.J. (1958). *Landslide Types and Processes*. In: Eckel, E.B. (Ed.), *Special Report 29: Landslides and Engineering Practice*. Washington DC : Highways Research Board, National Academy of Sciences
- Wang, Y., Fang, Z.C., & Hong, H.Y. (2019). Comparison of Convolutional Neural Networks for Landslide Susceptibility Mapping in Yanshan County, China. *Sci. Total Environ.* 666, 975–993.
- Wubalem, A. (2022). The Impact of DEM Resolution on Landslide Susceptibility Modeling. *Arabian Journal of Geosciences* (2022) 15: 967
- Wu, Y., Li, W., Liu, P., Bai, H., Wang, Q., He, J., Liu, Y., & Sun, S. (2016). Application of Analytic Hierarchy Process model for landslide susceptibility mapping in the Gangu County, Gansu Province, China. *Environmental Earth Science*, 75(5):422. doi:10.1007/s12665-015-5194-9
- Wei, X., Paolo, G., Lulu, Z., Lin, T., Dongsheng, L., Chunlan, D., & Hai, L. (2024). Improving Pixel-Based Regional Landslide Susceptibility Mapping. *Geoscience Frontiers*, 15 (4)
- Xu, W., Li, J., Peng, D., Yin, H., Jiang, J., Xia, H., & Wen, D. (2024). Vertical Accuracy Assessment and Improvement of Five High-Resolution Open-Source Digital Elevation Models Using ICESat-2 Data and Random Forest: Case Study on Chongqing, China. *Remote Sens.* 2024, 16, 1903. <https://doi.org/10.3390/rs16111903>
- Yulianto & Sudibyakto. (2012). Kajian Dampak Variabilitas Curah Hujan Terhadap Produktivitas Padi Sawah Tadah Hujan di Kabupaten Magelang. *Jurnal Sosial Ekonomi Pertanian dan Agribisnis*, 12 (1): 87 – 9