

Daftar Pustaka

- Aan Pambudi. (2026). *Indonesia: Letak Astronomis, Geografis, Geologis, Fisiografis, dan Geomorfologis*. Geografi.Org.
- Abidin, Z., Nurlina, & Ridwan, I. (2019). Hubungan Geomorfometri dengan Bentuk dan Penggunaan Lahan Sub-Sub DAS Riam Kanan Kabupaten Banjar Kalimantan Selatan. *Jurnal Fisika Flux*, 16(2).
- ABIDINE, R. Z. EL, & ABDELMANSOUR, N. (2019). *Landslide susceptibility mapping using information value and frequency ratio for the Arzew sector (North-Western of Algeria)*. 197–211.
- ADAMS, J. D., VISSER, R. J. M., & STEPHEN P. PRISLEY. (2003). *PRECISION FORESTRY PROCEEDINGS OF THE SECOND INTERNATIONAL*. University of Washington.
- Adil, A. (2017). *Sistem Informasi Geografis*. Penerbit Andi.
- Akahashi, T. T., & Hoji, S. S. (1998). *Distribution and Classification of Volcanic Ash Soils*. 83–97.
- Al-najjar, H. A. H., Pradhan, B., Kalantar, B., Sameen, M. I., Santosh, M., & Alamri, A. (2021). *Landslide Susceptibility Modeling : An Integrated Novel Method Based on Machine Learning Feature Transformation*. (Ml).
- An, H., Viet, T. T., Lee, G., Kim, Y., Kim, M., Noh, S., & Noh, J. (2016). Development of time-variant landslide-prediction software considering three-dimensional subsurface unsaturated flow. *Environmental Modelling and Software*, 85, 172–183. <https://doi.org/10.1016/j.envsoft.2016.08.009>
- Arsyad, U., Barkey, R. A., Wahyuni, W., & Matandung, K. K. (2018). Karakteristik Tanah Longsor di Daerah Aliran Sungai Tangka. *Jurnal Hutan Dan Masyarakat*, 10(1), 203. <https://doi.org/10.24259/jhm.v0i0.3978>
- Articles, O. (2005). *An approach for GIS-based statistical landslide susceptibility zonation — with a case study in the Himalayas*. (October 2004), 61–69. <https://doi.org/10.1007/s10346-004-0039-8>
- Barry, R. G., & Chorley, R. J. (2010). *Atmosphere , Weather and Climate*.

- Bednarik, M., Magulová, B., Matys, M., & Marschalko, M. (2010). *šovany – Liptovsky Mikuláš Landslide susceptibility assessment of the Kral railway case study*. 35, 162–171. <https://doi.org/10.1016/j.pce.2009.12.002>
- BNPB. (2025). *GEOPORTAL DATA BENCANA INDONESIA*. <https://gis.bnpb.go.id/>
- BPS Kabupaten Pekalongan. (2024). *KABUPATEN PEKALONGAN DALAM ANGKA 2024*. In *BPS Kabupaten Pekalongan: xx*.
- Characteristics of landslides in Kosishi River Basin, Central Himalaya*. (2016). 13(2), 1711–1722.
- Chen, S.-C., Chang, C.-C., Chan, H., Long-Ming Huang, & Li-Ling Lin. (2013). *Modeling Typhoon Event-Induced Landslides Using GIS-Based Logistic Regression: A Case Study of Alishan Forestry Railway, Taiwan*. 2013. <https://doi.org/http://dx.doi.org/10.5772/intechopen.99389>
- Chen, W., Reza, H., Kornejady, A., & Zhang, N. (2017). Geoderma Landslide spatial modeling : Introducing new ensembles of ANN , MaxEnt , and SVM machine learning techniques. *Geoderma*, 305(May), 314–327. <https://doi.org/10.1016/j.geoderma.2017.06.020>
- Cohen Jacob. (1960). A coefficient of agreement for nominal scales. *Educational and Psychological Measurement*, 20(1), 37-46 ST-A coefficient of agreement for nominal. <http://epm.sagepub.com>
- Das, B. M. (1995). *Mekanika Tanah: Prinsip-Prinsip Rekayasa Geoteknik*. Jakarta: penerbit Erlangga.
- Deoja, B., Dhital, M. R., Thapa, B., & Wagner, A. (1991). Mountain Risk Engineering Handbook: Part 1 - Subject Background. In *Training Manuals*. International Centre for Integrated Mountain Development. <http://lib.icimod.org/record/21344>
- Effendi, D. A. (2008). No Title. *Identifikasi Kejadian Tanah Longsor Dan Penentuan Faktor-Faktor Penyebabnya Di Kecamatan Babakan Madang Kabupaten Bogor*.
- Geological, J., & Of, S. (2016). *Landslide Susceptibility Mapping Using Analytical Hierarchy Process (AHP) in Tehri Reservoir Rim Region , Uttarakhand*. 87(March).
- Gholami, Mahvash, Ghachkanlu N, Esmaeil, Khosravi, Khabat, Pirasteh, & Saied. (2019).

Landslide prediction capability by comparison of frequency ratio, fuzzy gamma and landslide index method. *J. Earth Syst.*

Gruber, S., & Peckham, S. (2009). Chapter 7 Land-Surface Parameters and Objects in Hydrology. *Developments in Soil Science*, 33(C), 171–194. [https://doi.org/10.1016/S0166-2481\(08\)00007-X](https://doi.org/10.1016/S0166-2481(08)00007-X)

Hardiyatmo. (2002). *Mekanika Tanah I*. Yogyakarta: Gadjah Mada University Press.

Hardiyatmo, H. C. (2006). Penanganan tanah longsor dan erosi. In *Yogyakarta: Gadjah Mada University Press*.

Hermansyah. (2015). *Wilayah bahaya longsor menggunakan metode sinmap*. 2(3), 23–28.

Hikamtullah, & Sukarman. (2007). Evaluasi Sifat-Sifat Tanah pada Landform Aluvial di Tiga Lokasi di Kabupaten Donggala , Sulawesi Tengah dan membandingkan sifat-sifat fisik , kimia , dan informasi mengenai sifat dan potensi tanah-tanah umumnya ustik , tetapi masih terdapat beberapa. *JURNAL TANAH DAN IKLIM*, 69–82.

John E. Bowles. (1991). *Mekanika Tanah*. Jakarta. Erlangga.

Karnawati, D. (2005). Bencana Alam Gerakan Masa Tanah di Indonesia dan Upaya Penanggulangannya. *Yogyakarta: Jurusan Teknik Geologi, Fakultas Teknik Universitas Gadjah Mada*.

Kusratmoko, D., Ludiro, L. B., Matabiru, Sobirin, S., & Indra., T. L. (2002). Aplikasi Sistem Informasi Geografis untuk Penentuan Wilayah Prioritas Penanganan Bahaya Erosi Studi Kasus DAS Citarum. *Jakarta: Jurusan Geografi Dan Pusat Penelitian Geografi Terapan Fakultas*.

Landis, J. R., & Koch, G. G. (1977). Landis and Koch agreement of categorical data. *Biometrics*, 33(1), 159–174.

Lee, F. C. D. C. F., & Xu, J. L. Z. W. (2001). *Assessment of landslide susceptibility on the natural terrain of Lantau Island , Hong Kong*. 40(January), 381–391.

Lee, S. (2004). *Application of Likelihood Ratio and Logistic Regression Models to Landslide Susceptibility Mapping Using GIS*. 34(2), 223–232. <https://doi.org/10.1007/s00267-003-0077-3>

Listiawati, E. N., Ummu Solihca, Puguh Bintang Pamungkas, Diyan Pratiwi Mustarsyidah,

- Hendri, Sunardi, R. E., & Nanda Hardika Alam. (2012). *Laboratorium Ilmu Tanah Program Studi Agroteknologi Fakultas Agroindustri Universitas Mercu Buana Yogyakarta*.
- Liu, C., Li, W., Wu, H., Lu, P., & Sang, K. (2013). *Susceptibility evaluation and mapping of China ' s landslides based on multi-source data*. <https://doi.org/10.1007/s11069-013-0759-y>
- Magliulo, P., Lisio, A. Di, & Russo, F. (2008). *Comparison of GIS-based methodologies for the landslide susceptibility assessment*. <https://doi.org/10.1007/s10707-008-0063-2>
- Meinhardt, M., Fink, M., & Hannes, T. (2014). NU SC. *Geomorphology*, (2015). <https://doi.org/10.1016/j.geomorph.2014.12.042>
- Michel, G. P., Kobiyama, M., & Goerl, R. F. (2014). Comparative analysis of SHALSTAB and SINMAP for landslide susceptibility mapping in the Cunha River basin, southern Brazil. *Journal of Soils and Sediments*, 14(7), 1266–1277. <https://doi.org/10.1007/s11368-014-0886-4>
- 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. <https://doi.org/https://doi.org/10.1002/hyp.3360050103>
- Moreno-ibarra, M., Torres, M., Quintero, R., Guzman, G., & Menchaca-mendez, R. (2011). *Semantic assessment of similarity between raster elevation datasets Valoración semántica de la similitud entre conjuntos de datos raster de elevación*. 37–46.
- Nandi, A. (2007). *Buku Longsor Pengayaan Geologi Lingkungan*. Bandung: Universitas Pendidikan Indonesia.
- Nugroho, A. P. (2022). *Laporan tugas akhir karakteristik tanah aluvial dengan kandungan kapur terhadap adanya pabrik semen di desa sugihmanik*.
- Olii, M. R., Aleks Olii, & Ririn Pakaya. (2021). Analysis of Spatial Distribution of the Drought Hazard Index (DHI) by Integration AHP-GIS-Remote Sensing in Gorontalo Regency. *Journal of the Civil Engineering Forum*, 8(January), 81–96. <https://doi.org/10.22146/jcef.3595>
- Pack, R. T. (2005). SINMAP II: A Stability Index Approach Terrain Stability Hazard Mapping. *Utah: Utah State University*.

- Pack, R. T., Tarboton, D. G., & Goodwin, C. N. (2005). *SINMAP 2 A STABILITY INDEX APPROACH TO TERRAIN STABILITY HAZARD MAPPING Version for ArcGIS 9.x and Higher* (Vol. 02).
- Paper, O. (2014). *Assessment of rainfall-generated shallow landslide / debris-flow susceptibility and runout using a GIS-based approach : application to western Southern Alps of New Zealand*. (October). <https://doi.org/10.1007/s10346-014-0533-6>
- Paper, O. (2015). *Landslide susceptibility mapping using multi-criteria evaluation techniques in Chittagong Metropolitan*. (September 2014), 1077–1095. <https://doi.org/10.1007/s10346-014-0521-x>
- Peraturan Daerah Kabupaten Pekalongan Nomor 5 Tahun 2021 Tentang Rencana Pembangunan Jangka Menengah Daerah Kabupaten Pekalongan Tahun 2021–2026, Pemerintah Kabupaten Pekalongan (2021). <https://www.preventionweb.net/news/preliminary-report-february-6-2023-earthquakes-turkiye>
- Pitaloka, I. A., Suprayogi, A., & Nugraha, A. L. (2018). Identifikasi daerah rawan longsor dengan menggunakan Metode Smorph dan SIG (studi kasus : Kecamatan Semarang Barat). *Jurnal Geodesi Undip*, 7(4), 176–184.
- Pourghasemi, H. R., Pradhan, B., & Gokceoglu, C. (2012). *Process (AHP) to Landslide Susceptibility Mapping*.
- Prasetyo, E. (2012). *Data Mining Konsep dan Aplikasi Menggunakan Matlab*. Andi.
- Province, S. (2014). *Urgent landslide susceptibility assessment in the 2013*. <https://doi.org/10.1007/s11069-014-1441-8>
- Putra, E. H. (2014). Identifikasi daerah rawan longsor menggunakan metode smorph-slope morphology di Kota Manado. *Jurnal Wasian*, 1(1), 1–7.
- Rahmaputra, M. K. (2019). *Analisis dinamis bangunan rangka baja pada daerah tanah lunak*.
- Rahmati, O., Kalantari, Z., Samadi, M., Uuemaa, E., Moghaddam, D. D., Nalivan, O. A., Destouni, G., & Bui, D. T. (2019). GIS-based site selection for check dams in watersheds: Considering geomorphometric and topo-hydrological factors. *Sustainability (Switzerland)*, 11(20). <https://doi.org/10.3390/su11205639>

- Reza, H., Mohammady, M., & Pradhan, B. (2012). Catena Landslide susceptibility mapping using index of entropy and conditional probability models in GIS : Safarood Basin , Iran. *Catena*, 97, 71–84. <https://doi.org/10.1016/j.catena.2012.05.005>
- Riley, S. J., DeGloria, S. D., & Elliot, R. (1999). A TERRAIN RUGGEDNESS INDEX THAT QUANTIFIES TOPOGRAPHIC HETEROGENEITY. *INTERMOUNTAIN JOURNAL OF SCIENCES*, 5.
- Ristya, Y., Supriatna, & Sobirin. (2019). Spatial pattern of landslide potensial area by SMORPH, INDEX STORIE and SINMAP method in Pelabuhanratu and surrounding area, Indonesia. *IOP Conference Series: Earth and Environmental Science*, 338(1). <https://doi.org/10.1088/1755-1315/338/1/012033>
- Ruff, M., & Czurda, K. (2008). *Landslide susceptibility analysis with a heuristic approach in the Eastern Alps (Vorarlberg , Austria)*. 94, 314–324. <https://doi.org/10.1016/j.geomorph.2006.10.032>
- Sarwono Hardjowigeno, & Widiatmaka. (2007). *Evaluasi Kesesuaian Lahan dan Perencanaan Tataguna Lahan*.
- SIPIL, P. S. T., KOMPUTER, F. T. D. I., & BAKRIE, U. (2022). *MODUL PENYUSUNAN STRATIFIKASI TANAH ADVANCE GEOCALCULATION FOR INFRASTRUCTURE PROBLEM*.
- Sokolova, M., & Lapalme, G. (2009). A systematic analysis of performance measures for classification tasks. *Information Processing and Management*, 45(4), 427–437. <https://doi.org/10.1016/j.ipm.2009.03.002>
- Sørensen, R., Zinko, U., & Seibert, J. (2006). *On the calculation of the topographic wetness index : evaluation of different methods based on field observations*. 101–112.
- Sub Bidang Prediksi Cuaca, P. M. P. (2023). *Risiko Bencana (Disaster Risk)*. Nanda Alfuadi. <https://signature.bmkg.go.id/site/risiko-bencana-disaster-risk/>
- Sugandhi, N., Supriatna, & Heinrich Rakuasa. (2023). *Jambura Geoscience Review*. *Jambura Geoscience Review*, 5(1), 12–21. <https://doi.org/10.34312/jgeosrev.v5i1.14810>
- Sun, D., Xu, J., Wen, H., & Wang, Y. (2020). An Optimized Random Forest Model and Its Generalization Ability in Landslide Susceptibility Mapping: Application in Two Areas of Three Gorges Reservoir, China. *Springer Nature Link*, 31, 1068–1086.

- Susanti, P. D., Miardini, A., & Harjadi, B. (2017). ANALISIS KERENTANAN TANAH LONGSOR SEBAGAI DASAR MITIGASI DI KABUPATEN BANJARNEGARA (Vulnerability analysis as a basis for landslide mitigation in Banjarnegara Regency). *Jurnal Penelitian Pengelolaan Daerah Aliran Sungai*, 1(1), 49–59. <https://doi.org/10.20886/jppdas.v1i1.2502.g2073>
- Tanoli, J. I., Ningsheng, C., Regmi, A. D., & Jun, L. (2017). *Spatial distribution analysis and susceptibility mapping of landslides triggered before and after Mw7 . 8 Gorkha earthquake along Upper Bhote Koshi , Nepal*. <https://doi.org/10.1007/s12517-017-3026-9>
- Thai, B., Tien, D., Prakash, I., & Dholakia, M. B. (2017). *Catena Hybrid integration of Multilayer Perceptron Neural Networks and machine learning ensembles for landslide susceptibility assessment at Himalayan area (India) using GIS*. 149, 52–63.
- Triwahyuni, L., Sobirin, & Saraswat, R. (2017). Analisis Spasial Wilayah Potensi Longsor dengan Metode SINMAP dan SMORPH di Kabupaten Kulon Progo, Daerah Istimewa Yogyakarta. *Prosiding Industrial Research Workshop and National Seminar*, 8, 69–76. <https://jurnal.polban.ac.id/ojs-3.1.2/proceeding/article/view/701>
- Van Zuidam, R. A. (1985). *Aerial Photo-Interpretation in Terrain Analysis and Geomorphologic Mapping* (Fisrt). ITC.
- Wang, Y., Zhao, B., & Li, J. (2017). *Mechanism of the catastrophic June 2017 landslide at Xinmo Village , Songping River , Sichuan*. (November). <https://doi.org/10.1007/s10346-017-0927-3>
- Wiley, J., & Sons. (2010). *Geotechnical Engineering in Residual Soils*.
- Zhou, X., Wen, H., Zhang, Y., Xu, J., & Zhang, W. (2021). Geoscience Frontiers Landslide susceptibility mapping using hybrid random forest with GeoDetector and RFE for factor optimization. *Geoscience Frontiers*, 12(5), 101211. <https://doi.org/10.1016/j.gsf.2021.101211>