

DAFTAR PUSTAKA

- Abrar, C. B., Lubis, A. M., Fadli, D. I., Akbar, A. J., & Samdara, R. (2024). Mapping Landslide Vulnerability using Machine Learning Approach along the Taba Penanjung-Kepahiang Road, Bengkulu Province. *Geoplanning*, 11(1), 43–56. <https://doi.org/10.14710/geoplanning.11.1.43-56>
- Ado, M., Amitab, K., Maji, A. K., Jasińska, E., Gono, R., Leonowicz, Z., & Jasiński, M. (2022). Landslide Susceptibility Mapping Using Machine Learning: A Literature Survey. In *Remote Sensing* (Vol. 14, Issue 13). MDPI. <https://doi.org/10.3390/rs14133029>
- Afriani, L. Dr. Ir. (2020). *Kerawanan Longsor pada Lereng Tanah Lunak dan Penanganannya*. Penerbit Lakeisha.
- Akbar, M., Betaubun, H., Utary, C., Pamuttu, D. L., & Pasalli, D. A. (2023). Identifikasi jenis dan tingkat kerusakan jalan pada sistem jaringan jalan perkotaan. *Journal of Research and Inovation in Civil Engineering as Applied Science (RIGID)*, 2 No.1, 7–13.
- Alcántara-Ayala, I., Arbanas, Ž., Cuomo, S., Kazuo, D. H., Snježana, K., Arbanas, M., Mikoš, M., Sassa, K., Sassa, S., Tang, H., & Tiwari, B. (2023). *Progress in Landslide Research and Technology, Volume 2 Issue 1, 2023* (Vol. 2). International Consortium on Landslides (ICL).
- Arabameri, A., Pradhan, B., & Lombardo, L. (2019). Comparative assessment using boosted regression trees, binary logistic regression, frequency ratio and numerical risk factor for gully erosion susceptibility modelling. *Catena*, 183. <https://doi.org/10.1016/j.catena.2019.104223>
- Awainah, N., Sulfiana, Nurhaedah, Jamaluddin, & Aminullah, A. (2024). PERAN INFRASTRUKTUR DALAM MENDORONG PERTUMBUHAN EKONOMI DAN PENINGKATAN KUALITAS HIDUP MASYARAKAT. *Jurnal Review Pendidikan Dan Pengajaran*, 7 Nomor 3.
- Badan Pusat Statistik Kabupaten Purworejo. (2024). *Kecamatan Kaligesing Dalam Angka 2024*.
- Banuzaki, A. S., & Ayu, A. K. (2021). Integrated Remote Sensing and GIS Analysis for Landslide Susceptibility Assessment along the Trenggalek–Ponorogo Road, East Java Province, Indonesia. *Indonesian Association of Geologists Journal*, 1(1), 39–48. <https://doi.org/10.51835/iagij.2021.1.1.14>

- Bernat Gazibara, S., Sinčić, M., Krkač, M., Lukačić, H., & Mihalić Arbanas, S. (2023). Landslide susceptibility assessment on a large scale in the Podsljeme area, City of Zagreb (Croatia). *Journal of Maps*, 19(1). <https://doi.org/10.1080/17445647.2022.2163197>
- Bragagnolo, L., Silva, R. V. da, & Grzybowski, J. M. V. (2020). Artificial neural network ensembles applied to the mapping of landslide susceptibility. *Catena*, 184. <https://doi.org/10.1016/j.catena.2019.104240>
- Budianta, A., Alim Saputra, I., & Husen, N. K. (2023). Land Use Change on Potential Landslide Vulnerability in Palolo Sub-district Sigi Regency Change on Potential Landslide Vulnerability in Palolo Sub-district Sigi Regency). *E-Tadulako Science and Technology Journal*, 4(1), 11–21.
- Campforts, B., Shobe, C. M., Overeem, I., & Tucker, G. E. (2022). The Art of Landslides: How Stochastic Mass Wasting Shapes Topography and Influences Landscape Dynamics. *Journal of Geophysical Research: Earth Surface*, 127(8). <https://doi.org/10.1029/2022JF006745>
- Chen, X., & Chen, W. (2021). GIS-based landslide susceptibility assessment using optimized hybrid machine learning methods. *Catena*, 196. <https://doi.org/10.1016/j.catena.2020.104833>
- Conforti, M., & Ietto, F. (2021). Modeling shallow landslide susceptibility and assessment of the relative importance of predisposing factors, through a gis-based statistical analysis. *Geosciences (Switzerland)*, 11(8). <https://doi.org/10.3390/geosciences11080333>
- Cui, S., Pei, X., Jiang, Y., Wang, G., Fan, X., Yang, Q., & Huang, R. (2021). Liquefaction within a bedding fault: Understanding the initiation and movement of the Daguangbao landslide triggered by the 2008 Wenchuan Earthquake (Ms = 8.0). *Engineering Geology*, 295. <https://doi.org/10.1016/j.enggeo.2021.106455>
- Danhas, M., Jefrizal, R., Widiastomo, Y., Frinaldi, A., Lanin, D., Rembrant, & Umar, G. (2024). Kajian Model Struktur Kegiatan untuk Menetapkan Prioritas Pengalokasian Dana Bersama Penanggulangan Bencana. *Jurnal Ilmu Manajemen*, 12(3), 1–11.
- Darmawan, Y., Munawar, M., Sudarisman, M., Ferdiyansyah, E., Arifianto, F., Virgianto, R. H., Amri, S., & Veanti, D. P. O. (2024). Peningkatan Kapasitas Perangkat Masyarakat dalam Pengolahan Data Spasial Menuju Masyarakat Tanggap Bencana Banjir di Kecamatan Pesanggrahan Jakarta Selatan. *Jurnal Kreativitas Pengabdian Kepada Masyarakat (PKM)*, 7(3), 1363–1375. <https://doi.org/10.33024/jkpm.v7i3.13681>

- Das, S., Sarkar, S., & Kanungo, D. P. (2022). GIS-based landslide susceptibility zonation mapping using the analytic hierarchy process (AHP) method in parts of Kalimpong Region of Darjeeling Himalaya. *Environmental Monitoring and Assessment*, 194(3). <https://doi.org/10.1007/s10661-022-09851-7>
- Delaing Sun, Qingyu Gu, Haijia Wen, Jiahui Xu, Yalan Zhang, Shuxian Shi, Mengmeng Xue, & Xinzhi Zhou. (2022). Assesment of landslide susceptibility along mountain highways based on different machine learning algorithms and mapping units by hybrid factors screening and sample opimization. *Gondwana Research*, 123, 89–106. <https://doi.org/https://doi.org/10.1016/j.gr.2022.07.013>
- Di Napoli, M., Carotenuto, F., Cevasco, A., Confuorto, P., Di Martire, D., Firpo, M., Pepe, G., Raso, E., & Calcaterra, D. (2020). Machine learning ensemble modelling as a tool to improve landslide susceptibility mapping reliability. *Landslides*, 17(8), 1897–1914. <https://doi.org/10.1007/s10346-020-01392-9>
- Dikshit, A., Sarkar, R., Pradhan, B., Acharya, S., & Alamri, A. M. (2020). Spatial landslide risk assessment at Phuentsholing, Bhutan. *Geosciences (Switzerland)*, 10(4). <https://doi.org/10.3390/geosciences10040131>
- Dinding Penahan Tanah, Solusi Aman Rumah di Lereng Curam.* (n.d.). Retrieved December 26, 2024, from <https://www.blkp.co.id/blogs/detail/dinding-penahan-tanah>
- Du, G. liang, Zhang, Y. shuang, Iqbal, J., Yang, Z. hua, & Yao, X. (2017a). Landslide susceptibility mapping using an integrated model of information value method and logistic regression in the Bailongjiang watershed, Gansu Province, China. *Journal of Mountain Science*, 14(2), 249–268. <https://doi.org/10.1007/s11629-016-4126-9>
- Du, G. liang, Zhang, Y. shuang, Iqbal, J., Yang, Z. hua, & Yao, X. (2017b). Landslide susceptibility mapping using an integrated model of information value method and logistic regression in the Bailongjiang watershed, Gansu Province, China. *Journal of Mountain Science*, 14(2), 249–268. <https://doi.org/10.1007/s11629-016-4126-9>
- El Hariri, A., Ahmed, A. E. E., & Kiss, P. (2023). Sandy Loam Soil Shear Strength Parameters and Its Colour. *Applied Sciences (Switzerland)*, 13(6). <https://doi.org/10.3390/app13063847>
- Erzagian, E., Wilopo, W., & Fathani, T. F. (2023). Landslide Susceptibility Zonation Using GIS-Based Frequency Ratio Approach in the Kulon Progo Mountains Area, Indonesia. *Progress in Landslide Research and Technology*, 2(2), 115–126. https://doi.org/10.1007/978-3-031-44296-4_3

- ESRI. (2024). *Average Nearest Neighbor (Spatial Statistics)*. <https://pro.arcgis.com/en/pro-app/latest/tool-reference/spatial-statistics/average-nearest-neighbor.htm>
- Fan, H., Lu, Y., Hu, Y., Fang, J., Lv, C., Xu, C., Feng, X., & Liu, Y. (2022). A Landslide Susceptibility Evaluation of Highway Disasters Based on the Frequency Ratio Coupling Model. *Sustainability (Switzerland)*, 14(13). <https://doi.org/10.3390/su14137740>
- Fatah, K. K., Mustafa, Y. T., & Hassan, I. O. (2024). Geoinformatics-based frequency ratio, analytic hierarchy process and hybrid models for landslide susceptibility zonation in Kurdistan Region, Northern Iraq. *Environment, Development and Sustainability*, 26(3), 6977–7014. <https://doi.org/10.1007/s10668-023-02995-7>
- Ferlisi, S., Marchese, A., & Peduto, D. (2021). Quantitative analysis of the risk to road networks exposed to slow-moving landslides: a case study in the Campania region (southern Italy). *Landslides*, 18(1), 303–319. <https://doi.org/10.1007/s10346-020-01482-8>
- Gaprindashvili, G., Guo, J., Daorueang, P., Xin, T., & Rahimy, P. (2014). A New Statistic Approach towards Landslide Hazard Risk Assessment. *International Journal of Geosciences*, 05(01), 38–49. <https://doi.org/10.4236/ijg.2014.51006>
- Gaurina-Medjimurec, N. (2014). Handbook of research on advancements in environmental engineering. In *Handbook of Research on Advancements in Environmental Engineering*. IGI Global. <https://doi.org/10.4018/978-1-4666-7336-6>
- Gazali Agboola, Leila Hashemi Beni, Tamer Elbayoumi, & Gary Thompson. (2024). Optimizing landslide susceptibility mapping using machine learning and geospatial techniques. *Ecological Informatics*, 81. <https://doi.org/https://doi.org/10.1016/j.ecoinf.2024.102583>
- Goma, E. I., Sunimbar, S., & Angin, I. S. (2022). Analisis Geologi Kejadian Longsor Di Desa Wolotolo Kecamatan Detusoku Kabupaten Ende. *JPG (Jurnal Pendidikan Geografi)*, 9(2). <https://doi.org/10.20527/jpg.v9i2.13471>
- Hafsa, B., Chowdhury, Md. S., & Rahman, Md. N. (2022). Landslide susceptibility mapping of Rangamati District of Bangladesh using statistical and machine intelligence model. *Arabian Journal of Geosciences*, 15(15). <https://doi.org/10.1007/s12517-022-10607-3>
- HaileFekadu, G., Melese, D. T., & Weldesenbet, T. T. (2022). Landslide Susceptibility Assessment Using GIS on Rock-Soil Slope along Zabidar Mountain Road Corridors, Ethiopia. *Geopersia*, 12(2), 201–222. <https://doi.org/10.22059/GEOPE.2022.337838.648645>

- Hailu, S., Deribew, K. T., Teferi, E., Moisa, M. B., Roba, Z. R., Dagne, S. S., & Woldetsadik, M. (2024). Spatial assessment employing fusion logistic regression and frequency ratio models to monitor landslide susceptibility in the upper Blue Nile basin of Ethiopia: Muger watershed. *Environmental Systems Research*, 13(1). <https://doi.org/10.1186/s40068-024-00382-3>
- Hanafi, I., Pujowati, Y., & Muhtadi, M. A. (2023). Pengaruh Pembangunan Infrastruktur Transportasi Berkelanjutan terhadap Mobilitas dan Lingkungan di Kalimantan. *Jurnal Multidisiplin West Science*, 02, 908–917. <https://wnj.westscience-press.com/index.php/jmws>
- Hao, L., Qing, L., & Peijun, L. (2023). Field Test and Structural Stability Analysis of Multi-stage Slope Based on Seepage Coupling Theory. *European Journal of Computational Mechanics*, 32_3, 235–262. <https://doi.org/10.13052/ejcm2642-2085.3232>
- Haque, U., da Silva, P. F., Devoli, G., Pilz, J., Zhao, B., Khaloua, A., Wilopo, W., Andersen, P., Lu, P., Lee, J., Yamamoto, T., Keellings, D., Jian-Hong, W., & Glass, G. E. (2019). The human cost of global warming: Deadly landslides and their triggers (1995–2014). *Science of the Total Environment*, 682, 673–684. <https://doi.org/10.1016/j.scitotenv.2019.03.415>
- Hendrayana, H., Phyu, H. T., Indrawan, I. G. B., & Kamai, T. (2020). Mineralogical, Geochemical, and Mechanical Characteristics of Intrusive Andesite Rock Slope in Sangon 2 Area, Kulon Progo Regency, Indonesia. *Journal of Applied Geology*, 5(1), 25. <https://doi.org/10.22146/jag.56345>
- Highland, L., & Bobrowsky, P. (2017). TXT-tool 0.001-2.1 landslide types: Descriptions, illustrations and photos. In *Landslide Dynamics: ISDR-ICL Landslide Interactive Teaching Tools: Volume 1: Fundamentals, Mapping and Monitoring* (pp. 1–38). Springer International Publishing. https://doi.org/10.1007/978-3-319-57774-6_1
- Hong, H. (2023). Assessing landslide susceptibility based on hybrid Best-first decision tree with ensemble learning model. *Ecological Indicators*, 147. <https://doi.org/10.1016/j.ecolind.2023.109968>
- Huang, F., Xiong, H., Zhou, X., Catani, F., & Huang, J. (2024). Modelling Uncertainties and Sensitivity Analysis of Landslide Susceptibility Prediction under Different Environmental Factor Connection Methods and Machine Learning Models. *KSCE Journal of Civil Engineering*, 28(1), 45–62. <https://doi.org/10.1007/s12205-023-2430-9>
- Hussain, B. I., & Kaiser, B. (2023). Landslide hazard zonation using Bivariate Frequency Ratio Method along National highway-1 from Baramulla-Uri Road stretch, North Kashmir Himalayas, India. *Disaster Advances*, 16(6), 8–17. <https://doi.org/10.25303/1606da08017>

- Inabi, O., Attou, M., Benzaazoua, M., & Qachar, M. (2023). Design of Cost-Effective and Sustainable Treatments of Old Landslides Adapted to the Moroccan Road Network: A Case Study of Regional Road R410 Crossing the Rifan Structural Domain. *Water (Switzerland)*, 15(13). <https://doi.org/10.3390/w15132423>
- Jailani, Ms., Jeka, F., & Negeri Sulthan Thaha Saifuddin Jambi, U. (2023). Populasi dan Sampling (Kuantitatif), Serta Pemilihan Informan Kunci (Kualitatif) dalam Pendekatan Praktis. *Jurnal Pendidikan Tambusai*, 7 Nomor 3, 26320–26332.
- Jasnavičiūtė, A., & Veteikis, D. (2022). Assessing Landscape Instability through Land-Cover Change Based on the Hemeroby Index (Lithuanian Example). *MDPI*, 11(7). <https://doi.org/10.3390/land11071056>
- Jennifer, J. J., Saravanan, S., & Abijith, D. (2021). Application of Frequency Ratio and Logistic Regression Model in the Assessment of Landslide Susceptibility Mapping for Nilgiris District, Tamilnadu, India. *Indian Geotechnical Journal*, 51(4), 773–787. <https://doi.org/10.1007/s40098-021-00520-z>
- Jothimani, M., Getahun, E., & Abebe, A. (2022). Remote sensing, GIS, and RUSLE in soil loss estimation in the Kulfo river catchment, Rift valley, Southern Ethiopia. *Journal of Degraded and Mining Lands Management*, 9(2), 3307–3315. <https://doi.org/10.15243/jdmlm.2022.092.3307>
- Kadı, F., & Yılmaz, O. S. (2024). Determination of alternative forest road routes using produced landslide susceptibility maps: A case study of Tonya (Trabzon), Türkiye. *International Journal of Engineering and Geosciences*, 9(2), 147–164. <https://doi.org/10.26833/ijeg.1355615>
- Kavzoglu, T., Sahin, E. K., & Colkesen, I. (2014). Landslide susceptibility mapping using GIS-based multi-criteria decision analysis, support vector machines, and logistic regression. *Landslides*, 11(3), 425–439. <https://doi.org/10.1007/s10346-013-0391-7>
- Kebeba, O., Shano, L., Chemdesa, Y., & Jothimani, M. (2024). Integration of geospatial analysis, frequency ratio, and analytical hierarchy process for landslide susceptibility assessment in the maze catchment, omo valley, southern Ethiopia. *Quaternary Science Advances*, 15. <https://doi.org/10.1016/j.qsa.2024.100203>
- Kempf, M. (2020). Fables of the past: landscape (re-)constructions and the bias in the data. *Documenta Praehistorica*, 47, 476–492. <https://doi.org/10.4312/DP.47.27>
- Khan, I., Kainthola, A., Bahuguna, H., & Asgher, Md. S. (2024). Comparative landslide susceptibility assessment using information value and frequency ratio bivariate statistical methods: a case study from Northwestern Himalayas, Jammu and Kashmir, India. *Arabian Journal of Geosciences*, 17(8). <https://doi.org/10.1007/s12517-024-12022-2>

- Kinde, M., Getahun, E., & Jothimani, M. (2024). Geotechnical and slope stability analysis in the landslide-prone area: A case study in Sawla – Laska road sector, Southern Ethiopia. *Scientific African*, 23. <https://doi.org/10.1016/j.sciaf.2024.e02071>
- Kyriazos, T., & Poga, M. (2023). Dealing with Multicollinearity in Factor Analysis: The Problem, Detections, and Solutions. *Open Journal of Statistics*, 13(03), 404–424. <https://doi.org/10.4236/ojs.2023.133020>
- Lagmay, A. M. F., Escape, C. M., Ybañez, A. A., Suarez, J. K., & Cuaresma, G. (2020). Anatomy of the Naga City Landslide and Comparison With Historical Debris Avalanches and Analog Models. *Frontiers in Earth Science*, 8. <https://doi.org/10.3389/feart.2020.00312>
- Li, Y., & Duan, W. (2024). Decoding vegetation’s role in landslide susceptibility mapping: An integrated review of techniques and future directions. In *Biogeotechnics* (Vol. 2, Issue 1). KeAi Communications Co. <https://doi.org/10.1016/j.bgtech.2023.100056>
- Li, Y., Zheng, D., Yan, C., Wang, Z., & Nian, T. (2023). Spatial distributions and multi-factor driving mechanism of landslide in southern Liaodong Peninsula. *Frontiers in Ecology and Evolution*, 11. <https://doi.org/10.3389/fevo.2023.1339265>
- Limongi, G., Bencivenga, P., Dell’Aversano, C., Iervolino, V. E., Lavino, A., Zizi, M., & De Matteis, G. (2024). Road bridges exposure and alternative routes: Towards the definition of road network resilience. *Procedia Structural Integrity*, 62, 97–104. <https://doi.org/10.1016/j.prostr.2024.09.021>
- Liu, Y., Zhao, L., Bao, A., Li, J., & Yan, X. (2022). Chinese High Resolution Satellite Data and GIS-Based Assessment of Landslide Susceptibility along Highway G30 in Guozigou Valley Using Logistic Regression and MaxEnt Model. *Remote Sensing*, 14(15). <https://doi.org/10.3390/rs14153620>
- Lubis Rozaqon Insani, & Mulia Ahmad Perwira. (2021). Studi Pengembangan Jaringan Jalan Menggunakan Metode AHP dan GIS untuk Kota Tanjungbalai. *Jurnal Syntax Admiration*, 2(9), 1729–1742. <https://doi.org/10.46799/jsa.v2i9.307>
- Ma, W., Dong, J., Wei, Z., Peng, L., Wu, Q., Wang, X., Dong, Y., & Wu, Y. (2023). Landslide susceptibility assessment using the certainty factor and deep neural network. *Frontiers in Earth Science*, 10. <https://doi.org/10.3389/feart.2022.1091560>
- Ma, Z., & Mei, G. (2021). Deep learning for geological hazards analysis: Data, models, applications, and opportunities. In *Earth-Science Reviews* (Vol. 223). Elsevier B.V. <https://doi.org/10.1016/j.earscirev.2021.103858>

- Meiarti, R., Sartohadi, J., Ainun Pulungan, N., & Anggri Setiawan, dan M. (2018). Analisis Pola Spasial Distribusi Longsor Untuk Penentuan Faktor Pengontrol Utama Longsor Lahan Di DAS Kodil Provinsi Jawa Tengah. In *JGEL* (Vol. 2, Issue 1). <http://journal.uhamka.ac.id/index.php/jgel>
- Mersha, T., & Meten, M. (2020). GIS-based landslide susceptibility mapping and assessment using bivariate statistical methods in Simada area, northwestern Ethiopia. *Geoenvironmental Disasters*, 7(1). <https://doi.org/10.1186/s40677-020-00155-x>
- Mey, J., Guntu, R. K., Plakias, A., Silva de Almeida, I., & Schwanghart, W. (2023). More than one landslide per road kilometer – surveying and modelling mass movements along the Rishikesh-Joshimath (NH-7) highway, Uttarakhand, India. *Natural Hazards and Earth System Science*. <https://doi.org/10.5194/nhess-2022-295>
- Mir, R. A., Habib, Z., Kumar, A., & Bhat, N. A. (2024). Landslide susceptibility mapping and risk assessment using total estimated susceptibility values along NH44 in Jammu and Kashmir, Western Himalaya. *Natural Hazards*, 120(5), 4257–4296. <https://doi.org/10.1007/s11069-023-06363-6>
- Moragues, S., Lenzano, M. G., Jeanneret, P., Gil, V., & Lannutti, E. (2024). Landslide susceptibility mapping in the Northern part of Los Glaciares National Park, Southern Patagonia, Argentina using remote sensing, GIS and frequency ratio model. *Quaternary Science Advances*, 13(November 2023). <https://doi.org/10.1016/j.qsa.2023.100146>
- Mubin, U. H., Gaus, A., Pasri, A. A., & Damayanti, Y. (2020). UJI LAIK FUNGSI JALAN DALAM MEWUJUDKAN JALAN YANG BERKESELAMATAN STUDI KASUS JALAN UTAMA KOTA WEDA. *Journal of Science and Engineering*, 3(1). <https://doi.org/10.33387/josae.v3i1.2206>
- Mulugeta, T., Shano, L., & Jothimani, M. (2024). Landslide susceptibility modeling in the Kulfo river catchment, rift valley, Ethiopia: An integrated geospatial and statistical analysis. *Quaternary Science Advances*, 14(April), 100191. <https://doi.org/10.1016/j.qsa.2024.100191>
- Nabu, M. S. M., Da Costa, G. N., & Semiun, O. E. (2023). STRATEGI PENGELOLAAN JALAN KOLEKTOR BERDASARKAN KONDISI FUNGSIONAL JALAN. *Jurnal Teknik Sipil*, 2(2).
- Nakileza, B. R., Mugagga, F., Musali, P., & Nedala, S. (2022). Assessment of Landslide susceptibility and risk to road network in Mt Elgon, Uganda. *Research Square*. <https://doi.org/10.21203/rs.3.rs-1673620/v1>
- Nguyen, M. H., Ho, T. V., Nguyen, T. K., & Do, M. D. (2015). Modeling and simulation of the effects of landslide on circulation of transports on the mountain

- roads. In *IJACSA International Journal of Advanced Computer Science and Applications* (Vol. 6, Issue 8). www.ijacsa.thesai.org
- Nirwansyah, A. W., Utami, M., Suwarno, & Hidayatullah, T. (2015). Analisis Pola Sebaran Kejadian Longsorlahan di Kecamatan Somagede dengan Sistem Informasi Geografis. *Journal of Geomatics and Planning*, 2, 1–9.
- Noviyanto, A., Sartohadi, J., & Purwanto, B. H. (2020). The distribution of soil morphological characteristics for landslide-impacted Sumbing Volcano, Central Java - Indonesia. *Geoenvironmental Disasters*, 7(1). <https://doi.org/10.1186/s40677-020-00158-8>
- Nwazelibe, V. E., Unigwe, C. O., & Egbueri, J. C. (2023). Integration and comparison of algorithmic weight of evidence and logistic regression in landslide susceptibility mapping of the Orumba North erosion-prone region, Nigeria. *Modeling Earth Systems and Environment*, 9(1), 967–986. <https://doi.org/10.1007/s40808-022-01549-6>
- Peraturan Menteri Pekerjaan Umum Dan Perumahan Rakyat Nomor 05/PRT/M/2018 Tentang Penetapan Kelas Jalan Berdasarkan Fungsi Dan Intensitas Lalu Lintas Serta Daya Dukung Menerima Muatan Sumbu Terberat Dan Dimensi Kendaraan Bermotor (2018).
- Peraturan Pemerintah Republik Indonesia Nomor 34 Tahun 2006 Tentang Jalan (2006).
- Prasastiawati, D., & Sumunar, D. R. S. (2019). Landslide Risk Reduction by Using Geographic Information System in District Kaligesing, Purworejo Regency. *IOP Conf. Series: Earth and Environmental Science*, 012023. <https://doi.org/10.1088/1755-1315/271/1/012023>
- Qazi, A., Singh, K., Vishwakarma, D. K., & Abdo, H. G. (2023). GIS based landslide susceptibility zonation mapping using frequency ratio, information value and weight of evidence: a case study in Kinnaur District HP India. *Bulletin of Engineering Geology and the Environment*, 82(8). <https://doi.org/10.1007/s10064-023-03344-8>
- Raharjo, S. (2017). *Panduan Lengkap Uji Analisis Regresi Linear Sederhana dengan SPSS*. <https://www.spssindonesia.com/2017/03/uji-analisis-regresi-linear-sederhana.html>
- Roccati, A., Paliaga, G., Luino, F., Faccini, F., & Turconi, L. (2021). Gis-based landslide susceptibility mapping for land use planning and risk assessment. *Land*, 10(2), 1–28. <https://doi.org/10.3390/land10020162>
- Sasongko Ibnu. (2023). *Pembangunan Berkelanjutan: Penyediaan Infrastruktur Pada Kawasan Permukiman Secara Berkelanjutan*. PT. Muara Karya (IKAPI).

- Selamat, S. N., Majid, N. A., Taha, M. R., & Osman, A. (2022). Landslide Susceptibility Model Using Artificial Neural Network (ANN) Approach in Langat River Basin, Selangor, Malaysia. *Land*, 11(6). <https://doi.org/10.3390/land11060833>
- Selvia Laurny, M., & Ibrohim, M. (2019). SISTEM INFORMASI GEOGRAFIS TINGKAT KERUSAKAN RUAS JALAN BERBASIS WEB. *Sistem Informasi*, 6(1), 20–31.
- Septiani, Y., Khabibah, N. A., Sugiharti, Rr. R., & Ayuningtyas, A. (2024). Penguatan Kapasitas Lembaga Pemberdayaan Masyarakat Desa (LPMD) Polengan, Srumbung, Kabupaten Magelang Berbasis DESTANA. *Iragagaddhita: Jurnal Pengabdian Dan Pemberdayaan Masyarakat*, 2(1), 1–9. <https://doi.org/10.59996/iragagaddhita.v2i1.353>
- Shabbir, W., Omer, T., & Pilz, J. (2023). The impact of environmental change on landslides, fatal landslides, and their triggers in Pakistan (2003–2019). *Environmental Science and Pollution Research*, 30(12), 33819–33832. <https://doi.org/10.1007/s11356-022-24291-z>
- Shan, Y., Xu, Z., Zhou, S., Lu, H., Yu, W., Li, Z., Cao, X., Li, P., & Li, W. (2024). Landslide Hazard Assessment Combined with InSAR Deformation: A Case Study in the Zagunao River Basin, Sichuan Province, Southwestern China. *Remote Sensing*, 16(1). <https://doi.org/10.3390/rs16010099>
- Shu, H., Guo, Z., Qi, S., Song, D., Pourghasemi, H. R., & Ma, J. (2021). Integrating landslide typology with weighted frequency ratio model for landslide susceptibility mapping: A case study from lanzhou city of northwestern china. *Remote Sensing*, 13(18). <https://doi.org/10.3390/rs13183623>
- Silalahi, F. E. S., Pamela, Arifianti, Y., & Hidayat, F. (2019). Landslide susceptibility assessment using frequency ratio model in Bogor, West Java, Indonesia. *Geoscience Letters*, 6(1). <https://doi.org/10.1186/s40562-019-0140-4>
- Singh, A., Chhetri, N. K., Nitesh, Gupta, S. K., & Shukla, D. P. (2023). Strategies for sampling pseudo-absences of landslide locations for landslide susceptibility mapping in complex mountainous terrain of Northwest Himalaya. *Bulletin of Engineering Geology and the Environment*, 82(8). <https://doi.org/10.1007/s10064-023-03333-x>
- Sonker, I., Tripathi, J. N., & Swarnim. (2022). Remote sensing and GIS-based landslide susceptibility mapping using frequency ratio method in Sikkim Himalaya. *Quaternary Science Advances*, 8. <https://doi.org/10.1016/j.qsa.2022.100067>

- Souisa, M. (2019). Estimasi Kecepatan dan Panjang Larian Longsor Berdasarkan Pendekatan Longsor ELM. *BAREKENG: Jurnal Ilmu Matematika Dan Terapan*, 13(1), 053–060. <https://doi.org/10.30598/barekengvol13iss1pp053-060ar720>
- Syamsul, M. R. R., Syafri, & Rasyidi, E. S. (2024). Arahan Mitigasi dan Evakuasi bencana Alam Tanah Longsor di Kecamatan Maiwa Kabupaten Enrekang. *Journal of Urban Planning Studies*, 4 No. 3, 220–233.
- Tang, R. X., Yan, E. C., Wen, T., Yin, X. M., & Tang, W. (2021). Comparison of logistic regression, information value, and comprehensive evaluating model for landslide susceptibility mapping. *Sustainability (Switzerland)*, 13(7). <https://doi.org/10.3390/su13073803>
- Tawalujan, K. F., Sendow, T. K., & Manoppo, M. R. E. (2020). UJI LAIK FUNGSI JALAN SECARA TEKNIK PADA RUAS JALAN AIRMADIDI-KAIRAGI. *Jurnal Sipil Statik*, 8(4), 607–620.
- Tesfaye, B., Jothimani, M., & Dawit, Z. (2024). Mapping landslide susceptibility in the Debretabor-Alember road sector, Northwestern Ethiopia through geospatial tools and statistical approaches. *Journal of Degraded and Mining Lands Management*, 11(2), 5169–5179. <https://doi.org/10.15243/jdmlm.2024.112.5169>
- Umbara, R. P., Melati, D. N., Astisiasari, Wisyanto, Trisnafiah, S., Trinugroho, Arifianti, Y., Prawiradisastra, F., Ramdhani, T. I., Arifin, S., & Anggreainy, M. S. (2024). Utilization of Frequency Ratio and Logistic Regression Model for Landslide Susceptibility Mapping in Bogor Area. *International Journal on Advanced Science, Engineering and Information Technology*, 14(2), 528–539. <https://doi.org/10.18517/ijaseit.14.2.19345>
- Undang-Undang Republik Indonesia Nomor 2 Tahun 2022 Tentang Perubahan Kedua Atas Undang-Undang Nomor 38 Tahun 2004 Tentang Jalan (2022).
- Undang-Undang Republik Indonesia Nomor 38 Tahun 2004 Tentang Jalan (2004).
- U.S. Geological Survey. (2004). Landslide Types and Processes. *Fact Sheet*, 2004–3072.
- Varnes, D. J. (1978). *Slope movements: types and processes*.
- Wahyudianto, E. (2021). *Landslide Hazard Assesment Approach On The Provincial Road in East Java*. 2(1), 111–116.
- Wahyudiyanto, E. (2018). Analysis and Risk Study on Landslide Hazard Frequency at Road Corridor of Batu City-Kediri Regency Border. In *Journal of the Civil Engineering Forum* (Vol. 4, Issue 3).

- Wang, H., Guo, Q., Ge, X., & Tong, L. (2022). A Spatio-Temporal Monitoring Method Based on Multi-Source Remote Sensing Data Applied to the Case of the Temi Landslide. *Land*, 11(8). <https://doi.org/10.3390/land11081367>
- Wei, Y., Qiu, H., Liu, Z., Huangfu, W., Zhu, Y., Liu, Y., Yang, D., & Kamp, U. (2024). Refined and dynamic susceptibility assessment of landslides using InSAR and machine learning models. *Geoscience Frontiers*, 15(6). <https://doi.org/10.1016/j.gsf.2024.101890>
- Yonas, O., Jothimani, M., & Regasa, H. (2024). Assessing landslide susceptibility in Lake Abya catchment, Rift Valley, Ethiopia: A GIS-based frequency ratio analysis. *Jouran of Degraded and Mining Lands Management*, 11, 5885–5895. <https://doi.org/10.15243/jdmlm.2024.113.5885>
- Youssef, B., Bouskri, I., Brahim, B., Kader, S., Brahim, I., Abdelkrim, B., & Spalević, V. (2023). The contribution of the frequency ratio model and the prediction rate for the analysis of landslide risk in the Tizi N'tichka area on the national road (RN9) linking Marrakech and Ouarzazate. *Catena*, 232(August). <https://doi.org/10.1016/j.catena.2023.107464>
- Zhang, Y., & Cheng, L. (2023). The role of transport infrastructure in economic growth: Empirical evidence in the UK. *Transport Policy*, 133(June 2021), 223–233. <https://doi.org/10.1016/j.tranpol.2023.01.017>
- Zhang, Y. xing, Lan, H. xing, Li, L. ping, Wu, Y. ming, Chen, J. hui, & Tian, N. man. (2020). Optimizing the frequency ratio method for landslide susceptibility assessment: A case study of the Caiyuan Basin in the southeast mountainous area of China. *Journal of Mountain Science*, 17(2), 340–357. <https://doi.org/10.1007/s11629-019-5702-6>
- Zhao, Z., He, Y., Yao, S., Yang, W., Wang, W., Zhang, L., & Sun, Q. (2022). A comparative study of different neural network models for landslide susceptibility mapping. *Advances in Space Research*, 70(2), 383–401. <https://doi.org/10.1016/j.asr.2022.04.055>
- Zhou, C., Cao, Y., Hu, X., Yin, K., Wang, Y., & Catani, F. (2022). Enhanced dynamic landslide hazard mapping using MT-InSAR method in the Three Gorges Reservoir Area. *Landslides*, 19(7), 1585–1597. <https://doi.org/10.1007/s10346-021-01796-1>
- Zhou, M., Yuan, M., Yang, G., & Mei, G. (2024). Risk analysis of road networks under the influence of landslides by considering landslide susceptibility and road vulnerability: A case study. *Natural Hazards Research*. <https://doi.org/10.1016/j.nhres.2023.09.013>