DAFTAR PUSTAKA

Aggarwal, C.C., 2017. Outlier Analysis. Springer International Publishing, Cham. https://doi.org/10.1007/978-3-319-47578-3

Alba, D., 1976. Determination of soil liquefaction characteristics by large-scale laboratory tests. (No Title).

Anderson, D.J., Franke, K.W., Kayen, R.E., Dashti, S., Badanagki, M., 2023. The Over-Prediction of Seismically Induced Soil Liquefaction during the 2016 Kumamoto, Japan Earthquake Sequence. Geosciences 13, 7. https://doi.org/10.3390/geosciences13010007

Andiny, A.N., Faris, F., Adi, A.D., 2021. Re-liquefaction hazard evaluation in flow-slide affected area of Jono Oge, Central Sulawesi, Indonesia. IOP Conf. Ser.: Earth Environ. Sci. 861, 052030. https://doi.org/10.1088/1755-1315/861/5/052030

Andrus, R.D., Stokoe Ii, K.H., 2000. Liquefaction Resistance of Soils from Shear-Wave Velocity. J. Geotech. Geoenviron. Eng. 126, 1015–1025. https://doi.org/10.1061/(ASCE)1090-0241(2000)126:11(1015)

Boulanger, R., Idriss, I., 2014. CPT and SPT based liquefaction triggering procedures. Report No. UCD/CGM-14/01, Center for Geotechnical Modeling, University of California, Davis.

Breiman, L., 2001. Random Forest. Mach. Learn. 45, 5–32.

Brereton, P., Kitchenham, B.A., Budgen, D., Turner, M., Khalil, M., 2007. Lessons from applying the systematic literature review process within the software engineering domain. Journal of Systems and Software 80, 571–583. https://doi.org/10.1016/j.jss.2006.07.009

Can, R., Kocaman, S., Gokceoglu, C., 2021. A Comprehensive Assessment of XGBoost Algorithm for Landslide Susceptibility Mapping in the Upper Basin of Ataturk Dam, Turkey. Applied Sciences 11, 4993. https://doi.org/10.3390/app11114993

Caruana, R., Niculescu-Mizil, A., 2006. An empirical comparison of supervised learning algorithms, in: Proceedings of the 23rd International Conference on Machine Learning, ICML ’06. Association for Computing Machinery, New York, NY, USA, pp. 161–168. https://doi.org/10.1145/1143844.1143865

Cetin, K.O., Seed, R.B., Kayen, R.E., Moss, R.E.S., Bilge, H.T., Ilgac, M., Chowdhury, K., 2018. Dataset on SPT-based seismic soil liquefaction. Data in Brief 20, 544–548. https://doi.org/10.1016/j.dib.2018.08.043

Chawla, N.V., Bowyer, K.W., Hall, L.O., Kegelmeyer, W.P., 2002. SMOTE: Synthetic Minority Over-sampling Technique. jair 16, 321–357. https://doi.org/10.1613/jair.953

Chen, T., Guestrin, C., 2016. XGBoost: A Scalable Tree Boosting System, in: Proceedings of the 22nd ACM SIGKDD International Conference on Knowledge Discovery and Data Mining. Presented at the KDD ’16: The 22nd ACM SIGKDD International Conference on Knowledge Discovery and Data Mining, ACM, San Francisco California USA, pp. 785–794. https://doi.org/10.1145/2939672.2939785

Cunningham, P., Delany, S.J., 2022. k-Nearest Neighbour Classifiers - A Tutorial. ACM Comput. Surv. 54, 1–25. https://doi.org/10.1145/3459665

Day, R.W., 2012. Geotechnical earthquake engineering handbook: with the 2012 International building code, Second edition. ed. McGraw-Hill, New York.

de Magistris, F.S., 2015. The Occurrence of Liquefaction at Low Acceleration Level.

Demir, S., 2023. An investigation of feature selection methods for soil liquefaction prediction based on tree-based ensemble algorithms using AdaBoost, gradient boosting, and XGBoost. Neural Computing and Applications 35, 3173–3190. https://doi.org/10.1007/s00521-022-07856-4

Demir, S., 2022. Comparison of tree-based machine learning algorithms for predicting liquefaction potential using canonical correlation forest, rotation forest, and random forest based on CPT data. Soil Dynamics and Earthquake Engineering 154. https://doi.org/10.1016/j.soildyn.2021.107130

Demir, S., Sahin, E.K., 2023. An investigation of feature selection methods for soil liquefaction prediction based on tree-based ensemble algorithms using AdaBoost, gradient boosting, and XGBoost. Neural Comput & Applic 35, 3173–3190. https://doi.org/10.1007/s00521-022-07856-4

Demir, S., Şahin, E.K., 2022. Liquefaction prediction with robust machine learning algorithms (SVM, RF, and XGBoost) supported by genetic algorithm-based feature selection and parameter optimization from the perspective of data processing. Environ Earth Sci 81, 459. https://doi.org/10.1007/s12665-022-10578-4

Demir, S., Sahin, E.K., 2022. Comparison of tree-based machine learning algorithms for predicting liquefaction potential using canonical correlation forest, rotation forest, and random forest based on CPT data. Soil Dynamics and Earthquake Engineering 154, 107130. https://doi.org/10.1016/j.soildyn.2021.107130

Elwirehardja, G.N., Suparyanto, T., Pardamean, B., 2023. Pengenalan Konsep Machine Learning Untuk Pemula, First Edition. ed. Instiper Press, Sleman, DI Yogyakarta.

Fadliansyah, F., Faris, F., Wilopo, W., 2024. Implementation of machine learning classification models considering the optimum data ratio in predicting soil liquefaction susceptibility. IOP Conf. Ser.: Earth Environ. Sci. 1416, 012012. https://doi.org/10.1088/1755-1315/1416/1/012012

Fawcett, T., 2006. An introduction to ROC analysis. Pattern Recognition Letters, ROC Analysis in Pattern Recognition 27, 861–874. https://doi.org/10.1016/j.patrec.2005.10.010

Galupino, J., Dungca, J., 2022. Machine Learning Models to Generate A Subsurface Soil Profile: A Case of Makati City, Philippines. GEOMATE 23. https://doi.org/10.21660/2022.95.3029

Gandomi, A.H., Fridline, M.M., Roke, D.A., 2013. Decision Tree Approach for Soil Liquefaction Assessment. The Scientific World Journal 2013, 1–8. https://doi.org/10.1155/2013/346285

Garg, A., Mago, V., 2021. Role of machine learning in medical research: A survey. Computer Science Review 40, 100370. https://doi.org/10.1016/j.cosrev.2021.100370

Goharzay, M., Noorzad, A., Ardakani, A.M., Jalal, M., 2017. A worldwide SPT-based soil liquefaction triggering analysis utilizing gene expression programming and Bayesian probabilistic method. Journal of Rock Mechanics and Geotechnical Engineering 9, 683–693. https://doi.org/10.1016/j.jrmge.2017.03.011

Gorunescu, F., 2011. Data Mining, Intelligent Systems Reference Library. Springer Berlin Heidelberg, Berlin, Heidelberg. https://doi.org/10.1007/978-3-642-19721-5

Green, R.A., Bommer, J.J., 2019. What is the Smallest Earthquake Magnitude that Needs to be Considered in Assessing Liquefaction Hazard? Earthquake Spectra 35, 1441–1464. https://doi.org/10.1193/032218EQS064M

Green, R.A., Bommer, J.J., Rodriguez-Marek, A., Maurer, B.W., Stafford, P.J., Edwards, B., Kruiver, P.P., de Lange, G., van Elk, J., 2019. Addressing limitations in existing ‘simplified’ liquefaction triggering evaluation procedures: application to induced seismicity in the Groningen gas field. Bull Earthquake Eng 17, 4539–4557. https://doi.org/10.1007/s10518-018-0489-3

Guyon, I., Elisseeff, A., 2003. An introduction to variable and feature selection. J. Mach. Learn. Res. 3, 1157–1182.

Hanna, A.M., Ural, D., Saygili, G., 2007. Neural network model for liquefaction potential in soil deposits using Turkey and Taiwan earthquake data. Soil Dynamics and Earthquake Engineering 27, 521–540. https://doi.org/10.1016/j.soildyn.2006.11.001

Hu, J., 2021. Data cleaning and feature selection for gravelly soil liquefaction. Soil Dynamics and Earthquake Engineering 145. https://doi.org/10.1016/j.soildyn.2021.106711

Hu, J., 2016. Assessment of seismic liquefaction potential based on Bayesian network constructed from domain knowledge and history data. Soil Dynamics and Earthquake Engineering 89, 49–60. https://doi.org/10.1016/j.soildyn.2016.07.007

Hu, J., Wang, J., 2024. A data extension framework of seismic-induced gravelly soil liquefaction based on semi-supervised methods. Advanced Engineering Informatics 59, 102295. https://doi.org/10.1016/j.aei.2023.102295

Hu, J.-L., Tang, X.-W., Qiu, J.-N., 2015. A Bayesian network approach for predicting seismic liquefaction based on interpretive structural modeling. Georisk: Assessment and Management of Risk for Engineered Systems and Geohazards.

Hwang, J.-H., Khoshnevisan, S., Juang, C.H., Lu, C.-C., 2021. Soil liquefaction potential evaluation – An update of the HBF method focusing on research and practice in Taiwan. Engineering Geology 280, 105926. https://doi.org/10.1016/j.enggeo.2020.105926

Hwang, J.-H., Yang, C.-W., 2001. Verification of critical cyclic strength curve by Taiwan Chi-Chi earthquake data. Soil Dynamics and Earthquake Engineering 21, 237–257.

Idriss, I.M., Boulanger, R.W., 2008. Soil Liquefaction During Earthquakes. Earthquake Engineering Research Institute (EERI).

Ishihara, K., 1985. Stability of Natural Deposits During Earthquakes. Proceedings of the Eleventh International Conference on Soil Mechanics and Foundation Engineering 1, 321–376.

JICA. 2019a. Boring Survey for Basic Response for Central Sulawesi Earthquake (Phase 1) Under the JICA Survey for Disaster Information Collection

JICA. 2019b. Geotechnical Investigation of Landslide Palu Area. Project for Development of Regional Disaster Risk Resilience Plan in Central Sulawesi.

Kanno, T., Narita, A., Morikawa, N., Fujiwara, H., Fukushima, Y., 2006. A New Attenuation Relation for Strong Ground Motion in Japan Based on Recorded Data. Bulletin of the Seismological Society of America 96, 879–897. https://doi.org/10.1785/0120050138

Kayen, R., 2013. Shear-Wave velocity-based probabilistic and deterministic assessment of seismic soil liquefaction potential. Journal of Geotechnical and Geoenvironmental Engineering 139, 407–419. https://doi.org/10.1061/(ASCE)GT.1943-5606.0000743

Kitchenham, B., 2004. Procedures for Performing Systematic Reviews.

Kiyota, T., Furuichi, H., Hidayat, R.F., Tada, N., Nawir, H., 2020. Overview of long-distance flow-slide caused by the 2018 Sulawesi earthquake, Indonesia. Soils and Foundations 60, 722–735. https://doi.org/10.1016/j.sandf.2020.03.015

Kotoda, K., Wakamatsu, K., Midorikawa, S., 1988. Seismic Microzoning on Soil Liquefaction Potential Based on Geomorphological Land Classification. Soils and Foundations 28, 127–143. https://doi.org/10.3208/sandf1972.28.2_127

Kramer, S.L., 1996. Geotechnical Earthquake Engineering. Pearson Education India.

Kumar, D.R., Samui, P., Burman, A., 2023. Determination of Best Criteria for Evaluation of Liquefaction Potential of Soil. Transp. Infrastruct. Geotech. 10, 1345–1364. https://doi.org/10.1007/s40515-022-00268-w

Lai, H., Huang, H., Keshavjee, K., Guergachi, A., Gao, X., 2019. Predictive models for diabetes mellitus using machine learning techniques. BMC Endocr Disord 19, 101. https://doi.org/10.1186/s12902-019-0436-6

Mandhare, H.C., Idate, S.R., 2017. A comparative study of cluster based outlier detection, distance based outlier detection and density based outlier detection techniques, in: 2017 International Conference on Intelligent Computing and Control Systems (ICICCS). Presented at the 2017 International Conference on Intelligent Computing and Control Systems (ICICCS), IEEE, Madurai, pp. 931–935. https://doi.org/10.1109/ICCONS.2017.8250601

Manzanal, D., Bertelli, S., Lopez-Querol, S., Rossetto, T., Mira, P., 2021. Influence of fines content on liquefaction from a critical state framework: the Christchurch earthquake case study. Bull Eng Geol Environ 80, 4871–4889. https://doi.org/10.1007/s10064-021-02217-2

Marto, A., Tan, C.S., Makhtar, A.M., Jusoh, S.N., 2016. Cyclic Behaviour of Johor Sand. geomate. https://doi.org/10.21660/2016.21.5394

Mase, L.Z., Fathani, T.F., Adi, A.D., 2013. Experimetal Study of Liquefaction Potential in Opak River, Yogyakarta Special Province (in Indonesian), in: 17th Annual Scientific Meeting of Indonesian Society for Geotechnical Engineering (ISGE). Presented at the 17th Annual Scientific Meeting of Indonesian Society for Geotechnical Engineering (ISGE). https://doi.org/10.13140/RG.2.1.2802.1284

Muhanifah, H., Adi, A.D., Faris, F., 2021. Liquefaction investigation of Balaroa, Central Sulawesi on liquefied and non-liquefied areas. IOP Conf. Ser.: Earth Environ. Sci. 861, 052039. https://doi.org/10.1088/1755-1315/861/5/052039

Okamura, M., Ono, K., Arsyad, A., Minaka, U.S., Nurdin, S., 2020. Large-scale flowslide in Sibalaya caused by the 2018 Sulawesi earthquake. Soils and Foundations 60, 1050–1063. https://doi.org/10.1016/j.sandf.2020.03.016

Oktarina, P., Fikri, F., Istiarto, 2023. Correlation of excess pore water pressure ratio on flow liquefaction phenomenon in Sibalaya – Central Sulawesi Province. E3S Web Conf. 429, 04013. https://doi.org/10.1051/e3sconf/202342904013

Paleczek, A., Grochala, D., Rydosz, A., 2021. Artificial Breath Classification Using XGBoost Algorithm for Diabetes Detection. Sensors 21, 4187. https://doi.org/10.3390/s21124187

Pratama, A., Fathani, T.F., Satyarno, I., 2021. Liquefaction potential analysis on Gumbasa Irrigation Area in Central Sulawesi Province after 2018 earthquake. IOP Conf. Ser.: Earth Environ. Sci. 930, 012093. https://doi.org/10.1088/1755-1315/930/1/012093

Puri, N., Prasad, H.D., Jain, A., 2018. Prediction of Geotechnical Parameters Using Machine Learning Techniques. Procedia Computer Science 125, 509–517. https://doi.org/10.1016/j.procs.2017.12.066

Ramakrishnan, D., Mohanty, K.K., Nayak, S.R., Chandran, R.V., 2006. Mapping the liquefaction induced soil moisture changes using remote sensing technique: an attempt to map the earthquake induced liquefaction around Bhuj, Gujarat, India. Geotech Geol Eng 24, 1581–1602. https://doi.org/10.1007/s10706-005-3811-1

Robertson, P.K., Campanella, R.G., 1985. Liquefaction Potential of Sands Using the CPT. J. Geotech. Engrg. 111, 384–403. https://doi.org/10.1061/(ASCE)0733-9410(1985)111:3(384)

Sauri, S., Rifa'i, A., Hardiyatmo, H.C., 2021. Liquefaction Vulnerability Analysis using N-SPT Value and Grain Size Analysis on Gumbasa Irrigation Canal in the Post-Disaster Petobo Area, Sulawesi. IOP Conf. Ser.: Earth Environ. Sci. 930, 012081. https://doi.org/10.1088/1755-1315/930/1/012081

Seed, H.B., Asce, F., Idriss, I.M., Arango, I., 1983. Evaluation of Liquefaction Potential Using Field Performance Data.

Seed, H.B., Idriss, I.M., 1971. Simplified Procedure for Evaluating Soil Liquefaction Potential. Journal of the Soil Mechanics and Foundations Division 97, 1249–1273. https://doi.org/10.1061/JSFEAQ.0001662

Tang, L., Na, S., 2021. Comparison of machine learning methods for ground settlement prediction with different tunneling datasets. Journal of Rock Mechanics and Geotechnical Engineering 13, 1274–1289. https://doi.org/10.1016/j.jrmge.2021.08.006

Tanjung, M.I., Irsyam, M., Sahadewa, A., Iai, S., Tobita, T., Nawir, H., 2023. Overview of Flowslide in Petobo during liquefaction of the 2018 Palu Earthquake. Soil Dynamics and Earthquake Engineering 173, 108110. https://doi.org/10.1016/j.soildyn.2023.108110

Taranto-Vera, G., Galindo-Villardón, P., Merchán-Sánchez-Jara, J., Salazar-Pozo, J., Moreno-Salazar, A., Salazar-Villalva, V., 2021. Algorithms and software for data mining and machine learning: a critical comparative view from a systematic review of the literature. J Supercomput 77, 11481–11513. https://doi.org/10.1007/s11227-021-03708-5

Tokimatsu, K., Yoshimi, Y., 1983. Empirical Correlation of Soil Liquefaction Based on SPT N-Value and Fines Content. Soil and Foundations 23, 56–74. https://doi.org/10.3208/sandf1972.23.4_56

Towhata, I., 2008. Mitigation of Liquefaction-Induced Damage, in: Towhata, I. (Ed.), Geotechnical Earthquake Engineering, Springer Series in Geomechanics and Geoengineering. Springer, Berlin, Heidelberg, pp. 588–642. https://doi.org/10.1007/978-3-540-35783-4_26

Uddin, S., Khan, A., Hossain, M.E., Moni, M.A., 2019. Comparing different supervised machine learning algorithms for disease prediction. BMC Med Inform Decis Mak 19, 281. https://doi.org/10.1186/s12911-019-1004-8

V. Ramalingam, V., Dandapath, A., Karthik Raja, M., 2018. Heart disease prediction using machine learning techniques : a survey. IJET 7, 684. https://doi.org/10.14419/ijet.v7i2.8.10557

Wakamatsu, K., Yamamoto, A., Tanaka, I., 2001. Geomorphological Criteria for Evaluating Liquefaction Potential Considering the Level-2 Ground Motion in Japan, in: International Conference on Recent Advances in Geotechnical Earthquake Engineering and Soil Dynamics. Presented at the International Conferences on Recent Advances in Geotechnical Earthquake Engineering and Soil Dynamics.

Wang, Y., Sherry Ni, X., 2019. A XGBoost risk model via feature selection and Bayesian hyper-parameter optimization. IJDMS 11, 01–17. https://doi.org/10.5121/ijdms.2019.11101

Xue, X., Yang, X., 2014. Seismic liquefaction potential assessed by fuzzy comprehensive evaluation method. Nat Hazards 71, 2101–2112. https://doi.org/10.1007/s11069-013-0997-z

Xue, X., Yang, X., Li, P., 2017. Application of a probabilistic neural network for liquefaction assessment. NNW 27, 557–567. https://doi.org/10.14311/NNW.2017.27.030

Youd, T.L., 1998. Screening Guide for Rapid Assessment of Liquefaction Hazard at Highway Bridge Sites. Technical Report MCEER-98-0005.

Youd, T.L., Idriss, I.M., Andrus, R.D., Arango, I., Castro, G., Christian, J.T., Dobry, R., Finn, W.D.L., Jr, L.F.H., Hynes, M.E., Ishihara, K., Koester, J.P., Liao, S.S.C., Iii, W.F.M., Martin, G.R., Mitchell, J.K., Moriwaki, Y., Power, M.S., Robertson, P.K., Seed, R.B., Ii, K.H.S., 2001. Liquefaction Resistance of Soils: Summary Report from the 1996 NCEER and 1998 NCEER/NSF Workshops on Evaluation of Liquefaction Resistance of Soils. Journal of Geotechnical and Geoenvironmental Engineering Div 127, 297–313.

Zantvoort, K., Nacke, B., Görlich, D., Hornstein, S., Jacobi, C., Funk, B., 2024. Estimation of minimal data sets sizes for machine learning predictions in digital mental health interventions. npj Digit. Med. 7, 361. https://doi.org/10.1038/s41746-024-01360-w

Zhang, J., Wang, Y., 2021. An ensemble method to improve prediction of earthquake-induced soil liquefaction: a multi-dataset study. Neural Comput & Applic 33, 1533–1546. https://doi.org/10.1007/s00521-020-05084-2

Zhang, P., Jia, Y., Shang, Y., 2022. Research and application of XGBoost in imbalanced data. International Journal of Distributed Sensor Networks 18, 155013292211069. https://doi.org/10.1177/15501329221106935

Zhang, W., Wu, C., Zhong, H., Li, Y., Wang, L., 2021. Prediction of undrained shear strength using extreme gradient boosting and random forest based on Bayesian optimization. Geoscience Frontiers 12, 469–477. https://doi.org/10.1016/j.gsf.2020.03.007

Zhang, W., Zhang, R., Wu, C., Goh, A.T.C., Wang, L., 2022. Assessment of basal heave stability for braced excavations in anisotropic clay using extreme gradient boosting and random forest regression. Underground Space 7, 233–241. https://doi.org/10.1016/j.undsp.2020.03.001