UNIVERSITAS
GADJAH MADA
**Decision Support System Berbasis Random Forest sebagai Instrumen Prioritisasi Pendayagunaan Aset
Properti Idle PT PLN (Persero)**
Muhammad Yasykur Roslan, Yudistira Hendra Permana, S.E., M.Sc., Ph.D.
Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

DAFTAR PUSTAKA

Ali, R. H., Graves, J., Wu, S., Lee, J., & Linstead, E. (2020). A machine learning approach to delineating neighborhoods from geocoded appraisal data. ISPRS International Journal of Geo-Information, 9(7), 451. https://doi.org/10.3390/ijgi9070451

Alonso, W. (1964). *Location and Land Use*. Harvard University Press. https://doi.org/10.4159/harvard.9780674730854

Breiman, L. (2001). Random Forests. *Machine Learning*, *45*(1), 5–32. https://doi.org/10.1023/A:1010933404324

Brier, G. W. (1950). *VERIFICATION OF FORECASTS EXPRESSED IN TERMS OF PROBABILITY*. https://journals.ametsoc.org/view/journals/mwre/78/1/1520-0493_1950_078_0001_vofeit_2_0_co_2.xml

Cellmer, R. (2023). Points of Interest and Housing Prices. *Real Estate Management and Valuation*, *31*(1), 69–77. https://doi.org/10.2478/remav-2023-0007

Chang, S., Wang, Z., Mao, D., Guan, K., Jia, M., & Chen, C. (2020). Mapping the Essential Urban Land Use in Changchun by Applying *Random Forest* and Multi-Source Geospatial Data. *Remote Sensing*, *12*(15), 2488. https://doi.org/10.3390/rs12152488

Clauretie, T. M., & Li, H. (2019). Land Values: Size Matters. *The Journal of Real Estate Finance and Economics*, *58*(1), 80–110. https://doi.org/10.1007/s11146-017-9628-x

Colwell, P. F., & Scheu, T. (1989). Optimal lot size and configuration. *Journal of Urban Economics*, *26*(1), 90–109. https://doi.org/10.1016/0094-1190(89)90030-2

Direktorat Jenderal Kekayaan Negara. (2019). Laporan kinerja Direktorat Jenderal Kekayaan Negara tahun 2019. Kementerian Keuangan Republik Indonesia.

Direktorat Jenderal Kekayaan Negara. (2021). Laporan kinerja Direktorat Jenderal Kekayaan Negara tahun 2021. Kementerian Keuangan Republik Indonesia.

Friedman, J. H. (2001). Greedy function approximation: A gradient boosting machine. *The Annals of Statistics*, *29*(5), 1189–1232. https://doi.org/10.1214/aos/1013203451

Ham, S., & Lee, C. (2024). Classification of land lot shapes in real estate sector using a convolutional neural network. *PLoS ONE, 19*(9), e0308788. https://doi.org/10.1371/journal.pone.0308788

UNIVERSITAS
GADJAH MADA
**Decision Support System Berbasis Random Forest sebagai Instrumen Prioritisasi Pendayagunaan Aset
Properti Idle PT PLN (Persero)**
Muhammad Yasykur Roslan, Yudistira Hendra Permana, S.E., M.Sc., Ph.D.
Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

H. He & E. A. Garcia. (2009). Learning from Imbalanced Data. *IEEE Transactions on Knowledge and Data Engineering*, *21*(9), 1263–1284. https://doi.org/10.1109/TKDE.2008.239

Haklay, M. (2010). How Good is Volunteered Geographical Information? A Comparative Study of OpenStreetMap and Ordnance Survey Datasets. *Environment and Planning B: Planning and Design*, *37*(4), 682–703. https://doi.org/10.1068/b35097

Hanley, J. A., & McNeil, B. J. (1982). The meaning and use of the area under a receiver operating characteristic (ROC) curve. *Radiology*, *143*(1), 29–36. https://doi.org/10.1148/radiology.143.1.7063747

Hartikainen, K. (2023). *Property valuation with interpretable machine learning* [Master's thesis, Aalto University]. Aaltodoc. https://aaltodoc.aalto.fi/items/b7579b3b-f74e-4866-bbb7-b1817b193daf

Ho, W. K. O., Tang, B.-S., & Wong, S. W. (2020). Predicting property prices with machine learning algorithms. *Journal of Property Research*. https://doi.org/10.1080/09599916.2020.1832558

Kohavi, R. (1995). A study of cross-validation and bootstrap for accuracy estimation and model selection. In Proceedings of the 14th International Joint Conference on Artificial Intelligence (IJCAI-95) (pp. 1137–1143). Morgan Kaufmann.

Lee, B. K., Lessler, J., & Stuart, E. A. (2010). Improving *propensity score* weighting using machine learning. *Statistics in Medicine*, *29*(3), 337–346. https://doi.org/10.1002/sim.3782

Levantesi, S., & Piscopo, G. (2020). The Importance of Economic Variables on London Real Estate Market: A *Random Forest* Approach. *Risks*, *8*(4). https://doi.org/10.3390/risks8040112

Louppe, G., Wehenkel, L., Sutera, A., & Geurts, P. (2013). *Understanding variable importances in forests of randomized trees*.

Martínez, L. M., & Viegas, J. M. (2009). Effects of Transportation Accessibility on Residential Property Values: Hedonic Price Model in the Lisbon, Portugal, Metropolitan Area. *Transportation Research Record*, *2115*(1), 127–137. https://doi.org/10.3141/2115-16

Meyes, R., Lu, M., Puiseau, C. W. de, & Meisen, T. (2019). *Ablation Studies in Artificial Neural Networks* (arXiv:1901.08644). arXiv. https://doi.org/10.48550/arXiv.1901.08644

Narvaez, L., & Griffiths, S. (2013). Spatial Configuration and Bid Rent Theory: How urban space shapes the urban economy. *Proceedings 9th International Space Syntax Symposium. Sejong University. Seoul, Korea*.

Niculescu-Mizil, A., & Caruana, R. (2005). Predicting good probabilities with supervised learning. *Proceedings of the 22nd International Conference on*

UNIVERSITAS
GADJAH MADA
**Decision Support System Berbasis Random Forest sebagai Instrumen Prioritisasi Pendayagunaan Aset
Properti Idle PT PLN (Persero)**
Muhammad Yasykur Roslan, Yudistira Hendra Permana, S.E., M.Sc., Ph.D.
Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

Machine Learning, ICML '05, 625–632. https://doi.org/10.1145/1102351.1102430

Nithin, A. H., Hobbs, M., Sriramula, S., & Sripada, Y. (2022). An approach to improve asset maintenance and management priorities using machine learning techniques. *Safety and Reliability*, *41*(3), 151–169. https://doi.org/10.1080/09617353.2022.2142011

Pedregosa, F., Varoquaux, G., Gramfort, A., Michel, V., Thirion, B., Grisel, O., Blondel, M., Prettenhofer, P., Weiss, R., Dubourg, V., Vanderplas, J., Passos, A., Cournapeau, D., Brucher, M., Perrot, M., & Duchesnay, É. (2011). Scikit-learn: Machine learning in Python. Journal of Machine Learning Research, 12, 2825–2830.

PT PLN (Persero). (2025a). Peraturan Direksi PT PLN (Persero) Nomor 0001.KS/DIR/2025 tentang Kebijakan Strategis Manajemen Aset Properti PT PLN (Persero). PT PLN (Persero).

PT PLN (Persero). (2025b). Peraturan Pelaksana PT PLN (Persero) Nomor 0004.SPO/DIR/2025 tentang Standar Prosedur Pendayagunaan Aset Properti PT PLN (Persero). PT PLN (Persero).

PT PLN (Persero). (2025c). Laporan Tahunan PT PLN (Persero) 2024. PT PLN (Persero).

PT PLN (Persero). (2026). Laporan Keuangan Konsolidasian PT PLN (Persero) per 31 Desember 2025. PT PLN (Persero).

ROSENBAUM, P. R., & RUBIN, D. B. (1983). The central role of the *propensity score* in observational studies for causal effects. *Biometrika*, *70*(1), 41–55. https://doi.org/10.1093/biomet/70.1.41

Rossini, P. (2020). *LAND VALUE VS ACCESSIBILITY: TEACHING BID RENT THEORY USING EMPIRICAL EVIDENCE FROM AUSTRALIA*.

Turban, E., Sharda, R., & Delen, D. (2011). Decision support and business intelligence systems (9th ed.). Pearson Education.

Wan Zahari, W. Y., & Ismail, M. (2015). Determinants of Land Use and Property Value. *Advanced Science Letters*, *21*, 1150–1153. https://doi.org/10.1166/asl.2015.6065

Yilmazer, S., & Kocaman, S. (2020). A mass appraisal assessment study using machine learning based on multiple regression and *random forest*. *Land Use Policy*, *99*, 104889. https://doi.org/https://doi.org/10.1016/j.landusepol.2020.104889

Yue, Y., Zhuang, Y., Yeh, A. G. O., Xie, J.-Y., Ma, C.-L., & Li, Q.-Q. (2017). Measurements of POI-based mixed use and their relationships with neighbourhood vibrancy. *International Journal of Geographical Information Science*, *31*(4), 658–675. https://doi.org/10.1080/13658816.2016.1220561

UNIVERSITAS
GADJAH MADA
**Decision Support System Berbasis Random Forest sebagai Instrumen Prioritisasi Pendayagunaan Aset
Properti Idle PT PLN (Persero)**
Muhammad Yasykur Roslan, Yudistira Hendra Permana, S.E., M.Sc., Ph.D.
Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

Zhao, P., Su, X., Ge, T., & Fan, J. (2016). *Propensity Score* and Proximity Matching Using *Random Forest*. *Contemporary Clinical Trials*, *47*, 85–92. https://doi.org/10.1016/j.cct.2015.12.012