



DAFTAR PUSTAKA

- Adityarahman, M. A., Alfadli, M. K., & Listiawan, Y. (2024). *Proyeksi Tutupan Lahan Tahun 2025 dan 2026 dengan Pendekatan Random Forest Classifier Di Sub DAS Cibeusi, Kecamatan Jatinangor, Kabupaten Sumedang, Provinsi Jawa Barat*. 8(4), 2185–2194.
- Al-Doski, J., Mansor, S. B., Ng, H. ', San, P., & Khuzaimah, Z. (2020). Land Cover Mapping Using Remote Sensing Data. *American Journal of Geographic Information System*, 2020(1), 33–45. <https://doi.org/10.5923/j.ajgis.20200901.04>
- Awaliyan, R., & Sulistyoadi, Y. B. (2018). Klasifikasi Penutupan Lahan Pada Citra Satelit Sentinel-2a Dengan Metode Tree Algorithm. *ULIN: Jurnal Hutan Tropis*, 2(2), 98–104. <https://doi.org/10.32522/ujht.v2i2.1363>
- Awang, S., Santoso, H., Widayanti, W., Nugroho, Y., Kustomo, & Sapardiono. (2001). *Gurat Hutan Rakyat*. Debut Press.
- Awang, S., Wiyono, E., & Sadiyo, S. (2007). *Unit Manajemen Hutan Rakyat: Proses Konstruksi Pengetahuan Lokal*. Banyumili.
- Ayu, N., Pramesthi, S., Alina, A. N., & Yahya, F. (2024). Kesesuaian Lahan Pembangunan Kawasan Industri (Studi Kasus : Kabupaten Blitar). *Jurnal Geodesi Dan Geomatika*, 07(01), 14–24.
- Belgiu, M., & Drăgu, L. (2016). Random forest in remote sensing: A review of applications and future directions. *ISPRS Journal of Photogrammetry and Remote Sensing*, 114, 24–31. <https://doi.org/10.1016/j.isprsjprs.2016.01.011>
- Budiadi, B., Mada, U. G., Wiyono, W., Mada, U. G., & Lestari, L. D. (2023). *Tumpang Sari dan Hutan Rakyat* (Issue November).
- Congalton, R. G., Gu, J., Yadav, K., Thenkabail, P., & Ozdogan, M. (2014). Global land cover mapping: A review and uncertainty analysis. *Remote Sensing*, 6(12), 12070–12093. <https://doi.org/10.3390/rs61212070>
- Eramudadi, D., & Rokhmana, C. A. (2024). Ekstraksi Permukiman dari Kombinasi Citra Sentinel-2 dan Sentinel-1 dengan Pendekatan Object-Based Image Analysis. *JGISE: Journal of Geospatial Information Science and Engineering*, 7(1), 71. <https://doi.org/10.22146/jgise.91380>
- Erkamim, M., Mukhlis, I. R., Putra, Adiwarmarman, M., Rassarandi, F. D., Rumata, N. A., Arrofiqoh, E. N., Rahman KN, A., Chusnayah, F., Paddiyatu, N., & Hermawan, E. (2023). *Sistem Informasi Geografis* (Issue December). PT. Green Pustaka Indonesia.
- ESA. (2015). Sentinel-2 User Handbook. In *In ESA Standard Document*. (Vol. 48, Issue 9). <https://doi.org/10.1021/ie51400a018>
- Firmansyah, D., & Dede. (2022). Teknik Pengambilan Sampel Umum dalam Metodologi Penelitian: Literature Review. *Jurnal Ilmiah Pendidikan Holistik (JIPH)*, 1(2), 85–114. <https://doi.org/10.55927/jiph.v1i2.937>
- Firozjaei, M. K., Sedighi, A., Kiavarz, M., Qureshi, S., Haase, D., & Alavipanah, S. K. (2019). Automated built-up extraction index: A new technique for mapping surface built-up areas using LANDSAT 8 OLI imagery. *Remote Sensing*, 11(17).



<https://doi.org/10.3390/rs11171966>

- Fuady, A., Jauhari, A., Syam'ani, D., & Kehutanan, J. (2018). Analysis of Change Land Appearance Using Landsat Image in The Sultan Adam's Forest Park. *Jurnal Sylva Scientiae*, 01(2), 184–192.
- Gislason, P. O., Benediktsson, J. A., & Sveinsson, J. R. (2006). Random Forests for land cover classification. *Pattern Recognit. Lett.*, 27, 294–300. <https://doi.org/10.1016/j.patrec.2005.08.011>
- Guo, F., Fan, L., Zhang, C., & Xue, S. (2024). Ecological Informatics A novel space – spectrum array tile probability random-forest model enhances LULC mapping accuracy on Google Earth Engine : An experiment in Ordos , China. *Ecological Informatics*, 81(December 2023), 102607. <https://doi.org/10.1016/j.ecoinf.2024.102607>
- Hapsari, T. A., Dharmawan, A. H., & Sita, R. (2024). Hutan Rakyat dalam Sistem Penghidupan Rumah Tangga Petani dan Peranannya dalam Industri Penggajian Kayu di Pedesaan: Studi Kasus Desa Prigi, Kabupaten Banjarnegara. *Jurnal Sains Komunikasi Dan Pengembangan Masyarakat [JSKPM]*, 8(01), 14–28. <https://doi.org/10.29244/jskpm.v8i01.1280>
- Haralick, R. M., Dinstein, I., & Shanmugam, K. (1973). *Textural Features for Image Classification*.
- Hardjanto. (2017). *Pengelolaan Hutan Rakyat*. IPB Press.
- Herwirawan, F. X., Kusmana, C., Suhendang, E., & Widiatmaka. (2019). Land Suitability for Community Forestry to Poverty Alleviation in the Border Area at Timor Tengah Utara District. *Jurnal Pengelolaan Sumberdaya Alam Dan Lingkungan*, 9(1), 29–39. <https://doi.org/10.29244/jpsl.9.1.29-39>
- Ka'u, A. A., Takumansang, E. D., & Sembel, A. (2021). Analisis Tingkat Kerawanan Banjir Di Kecamatan Sangtombolang Kabupaten Bolaang Mongondow. *Jurnal Spasial*, 8(3), 291–302.
- L. Breiman. (2001). Random Forest. *Mach. Learn*, 45, 5–32.
- Lowe, B., & Kulkarni, A. (2015). Multispectral Image Analysis Using Random Forest. *International Journal on Soft Computing (IJSC)*, 6(1), 1–14. <https://doi.org/10.5121/ijsc.2015.6101>
- Ma, L., Liu, Y., Zhang, X., Ye, Y., Yin, G., & Johnson, B. A. (2019). Deep learning in remote sensing applications: A meta-analysis and review. *ISPRS Journal of Photogrammetry and Remote Sensing*, 152(April), 166–177. <https://doi.org/10.1016/j.isprsjprs.2019.04.015>
- Marlina, D. (2022). Klasifikasi Tutupan Lahan pada Citra Sentinel-2 Kabupaten Kuningan dengan NDVI dan Algoritme Random Forest. *STRING (Satuan Tulisan Riset Dan Inovasi Teknologi)*, 7(1), 41. <https://doi.org/10.30998/string.v7i1.12948>
- Matarira, D., Mutanga, O., & Naidu, M. (2023). *Engine Using the Integration of Sentinel-1 , Sentinel-2 , and* 1–17.
- McHugh, M. L. (2012). Lessons in Biostatistics Interrater Reliability : The Kappa Statistic. *Biochemica Medica*, 22(3), 276–282. <https://hrcak.srce.hr/89395>



- Millard, K., & Richardson, M. (2015). On the importance of training data sample selection in Random Forest image classification: A case study in peatland ecosystem mapping. *Remote Sensing*, 7(7), 8489–8515. <https://doi.org/10.3390/rs70708489>
- Muhsoni, F. F., & Murniyanto, E. (2014). Pemetaan Kesesuaian Lahan Tanaman Pangan Padi di Kabupaten Bangkalan dengan Menggunakan Sistem Informasi Geografis. *Agrovigor*, 7(1), 37.
- Naikoo, M. W., Rihan, M., Ishtiaque, M., & Shahfahad. (2020). Analyses of Land Use Land Cover (LULC) Change and Built-up Expansion in the Suburb of a Metropolitan City: Spatio-Temporal Analysis of Delhi NCR Using Landsat Datasets. *Journal of Urban Management*, 9(3), 347–359. <https://doi.org/10.1016/j.jum.2020.05.004>
- Olyphant, A. J., Thenkabail, P. S., Teluguntla, P., Xiong, J., Gumma, M. K., Congalton, R. G., & Yadav, K. (2019). Mapping Cropland Extent of Southeast and Northeast Asia Using Multi-year time-series Landsat 30-m data Using a Random Forest Classifier on the Google Earth Engine Cloud. *International Journal of Applied Earth Observation and Geoinformation*, 81(November 2018), 110–124. <https://doi.org/10.1016/j.jag.2018.11.014>
- Olofsson, P., Foody, G. M., Herold, M., Stehman, S. V., Woodcock, C. E., & Wulder, M. A. (2014). Good practices for estimating area and assessing accuracy of land change. *Remote Sensing of Environment*, 148, 42–57. <https://doi.org/10.1016/j.rse.2014.02.015>
- Olofsson, P., Foody, G. M., Stehman, S. V., & Woodcock, C. E. (2013). Making better use of accuracy data in land change studies: Estimating accuracy and area and quantifying uncertainty using stratified estimation. *Remote Sensing of Environment*, 129, 122–131. <https://doi.org/10.1016/j.rse.2012.10.031>
- Phalke, A. R., Özdoğan, M., Thenkabail, P. S., Erickson, T., Gorelick, N., Yadav, K., & Congalton, R. G. (2020). Mapping croplands of Europe, Middle East, Russia, and Central Asia using Landsat, Random Forest, and Google Earth Engine. *ISPRS Journal of Photogrammetry and Remote Sensing*, 167(July), 104–122. <https://doi.org/10.1016/j.isprsjprs.2020.06.022>
- Posangi, T., Yahya, L., & Wungguli, D. (2023). Implementasi Algoritma Random Forest dengan Forward Selection untuk Klasifikasi Indeks Pembangunan Manusia. *Jambura Journal of Probability and Statistics*, 4(2), 85–91. <https://doi.org/10.37905/jjps.v4i2.18460>
- Pratama, M. R., & Dwiza, R. (2022). Klasifikasi Penutupan Lahan Menggunakan Google Earth Engine dengan Metode Klasifikasi Terbimbing pada Wilayah Penajam Paser Utara. *JUPITER: Jurnal Penelitian Ilmu Dan Teknologi Komputer*, 14(2c), 637–650.
- Pratic, S., Solano, F., & Fazio, S. Di. (2021). *Machine Learning Classification of Mediterranean Forest Habitats in Google Earth Engine Based on Seasonal Sentinel-2 Time-Series and Input Image Composition Optimisation.*
- Putri, K. A., & Handayani, H. H. (2024). Perbandingan Hasil Klasifikasi Tutupan Lahan Menggunakan Metode Artificial Neural Network (ANN), Support Vector Machine (SVM), dan Random Forest (RF) dengan Bahasa Pemrograman R Pendahuluan Penginderaan jauh (remote sensing) merupakan ilmu yang me. 19(2), 349–360.
- Rahmi, A. T., Pratiwi, K. H., & Deni, D. P. (2023). Analisis Algoritma Random Forestndan



- Kombinasi Indeks Spektral Untuk Identifikasi Lahan Terbangun (Kasus Kota Surakarta). *Jurnal Sains Komputer & Informatika (J-SAKTI)*, 7(2), 865–881. <https://tunasbangsa.ac.id/ejurnal/index.php/jsakti>
- Rodriguez-Galiano, V. F., Ghimire, B., Rogan, J., Chica-Olmo, M., & Rigol-Sanchez, J. P. (2012). An Assessment of the Effectiveness of a Random Forest Classifier for Land-Cover Classification. *ISPRS Journal of Photogrammetry and Remote Sensing*, 67(1), 93–104. <https://doi.org/10.1016/j.isprsjprs.2011.11.002>
- Rohman, M. S., Afrinaldi, A., Syauqani, A., & Safira, M. (2025). Prediksi Perubahan Tutupan Lahan di Kabupaten Bogor Tahun 2026 Menggunakan Random Forest dengan Citra Satelit Sentinel-2 Terklasifikasi. *Tunas Agraria*, 8(2), 192–218. <https://doi.org/10.31292/jta.v8i2.413>
- Safe'i, R., & P Sukmara, M. D. (2019). Analisis Spasial Potensi Hutan Rakyat Di Kabupaten Bogor. *Jurnal Belantara*, 2(1), 01–09. <https://doi.org/10.29303/jbl.v2i1.22>
- Saini, R., & Rawat, S. (2023). Land Use Land Cover Classification in Remote Sensing Using Machine Learning Techniques. *1st IEEE International Conference on Innovations in High Speed Communication and Signal Processing, IHCSPP 2023*, 99–104. <https://doi.org/10.1109/IHCSPP56702.2023.10127126>
- Saleh, M. (2024). Evaluation of Jenks Natural Breaks Clustering Algorithm for Change-point Identification in Streaming Sensor Data. *IEEE Sensors Letters*, 8(10). <https://doi.org/10.1109/LSENS.2024.3456292>
- Sambodo, Ari, K., Rahayu, M. I., Indriasari, N., & Natsir, M. (2014). Klasifikasi Hutan-Non Hutan Data Alos Palsar Menggunakan Metode Random Forest. *In Prosiding Seminar Nasional Penginderaan Jauh*, 120–127.
- Santoso, S. H. M. B. (2014). *Pemodelan Spasial untuk Estimasi Produksi Padi dan Tembakau Berdasarkan Citra Multiresolusi [Disertasi]*. Universitas Gadjah Mada.
- Sasongko, T. B. (2016). Komparasi dan Analisis Kinerja Model Algoritma SVM dan PSO-SVM (Studi Kasus Klasifikasi Jalur Minat SMA). *Jurnal Teknik Informatika Dan Sistem Informasi*, 2(2), 244–253. <https://doi.org/10.28932/jutisi.v2i2.476>
- Scarpa, G., Gargiulo, M., Mazza, A., & Gaetano, R. (2018). A CNN-based fusion method for feature extraction from sentinel data. *Remote Sensing*, 10(2), 1–20. <https://doi.org/10.3390/rs10020236>
- Simon, H. (2010). *Dinamika Hutan Rakyat di Indonesia*. Pustaka Pelajar.
- Sirait, D. A., Widiatmaka, W., & Rusdiana, O. (2021). Arahan Pengembangan Hutan Rakyat untuk Penanganan Lahan Kritis di Kabupaten Sukabumi, Provinsi Jawa Barat. *Tataloka*, 23(3), 344–353. <https://doi.org/10.14710/tataloka.23.3.344-353>
- Siska, W., Widiatmaka, W., Setiawan, Y., & Adi, S. H. (2022). Pemetaan Perubahan Lahan Sawah Kabupaten Sukabumi Menggunakan Google Earth Engine. *Tataloka*, 24(1), 74–83. <https://doi.org/10.14710/tataloka.24.1.74-83>
- Soraya, E. (2017). *Model Manajemen Modern Hutan Rakyat: Perlukah? Hutan Rakyat Di Simpang Jalan*, .
- Sugiarto, B. (2018). Prediksi Perubahan Tutupan Lahan Akibat Dampak Pembangunan Jembatan Suramadu Di Kabupaten Bangkalan. *Jurnal Teknik Sipil, Lingkungan, Dan*



Kebumian, 1–125. <http://repository.its.ac.id/id/eprint/51370>

- Sukristiyanti, Wikantika, K., Sadisun, I. A., Yayusman, L. F., & Narulita, I. (2021). Klasifikasi Penggunaan Lahan dengan Algoritma Random Forest pada Google Earth Engine (Studi Kasus: Cekungan Bandung). *Seminar Nasional Geomatika VI: Inovasi Geospasial Dalam Pengurangan Risiko Bencana*, 6(Januari), 385–390. <https://www.researchgate.net/publication/359710047>
- Suprpto, E. (2010). Hutan rakyat: Aspek produksi, ekologi, dan kelembagaan. *Seminar Nasional Kontribusi Pengurangan Emisi Karbon Dari Kawasan Hutan Yang Dikelola Masyarakat Secara Lestari Dan Berkelanjutan*, 1–8.
- Suwanda, Puspaningsih, N., & Rahaju, S. (2025). Metode Random Forest dan Support Vector Machine untuk Monitoring Perubahan Tutupan. *Jurnal ForestIndo*, 2(1), 301–314.
- Tamiminia, H., Salehi, B., Mahdianpari, M., Quackenbush, L., Adeli, S., & Brisco, B. (2020). Google Earth Engine for geo-big data applications: A meta-analysis and systematic review. *ISPRS Journal of Photogrammetry and Remote Sensing*, 164(April), 152–170. <https://doi.org/10.1016/j.isprsjprs.2020.04.001>
- Vergni, L., Vinci, A., Todisco, F., Santaga, F. S., & Vizzari, M. (2021). *recognition of irrigated areas in central Italy mereon onmeral. LII*, 43–53. <https://doi.org/10.4081/jae.2021.1265>
- Vizzari, M. (2022). Object-Based Land Cover Classification in Google Earth Engine. *Remote Sensing*, 14, 1–19.
- Waske, B., & Braun, M. (2009). Classifier Ensembles for Land Cover Mapping Using Multitemporal SAR Imagery. *ISPRS Journal of Photogrammetry and Remote Sensing*, 64(5), 450–457. <https://doi.org/10.1016/j.isprsjprs.2009.01.003>
- Wiyono, Oktalina, S. N., & Rochmat, H. (2018). *Analisis Rantai Pemasaran Kayu Sertifikasi fsc di Kabupaten Kulon Progo*. 2(1), 71–80.
- Wulandari, Y. N., Afininnas, F., Jati, F., & Kurniawan, R. (2024). Analisis Perbandingan Metode Klasifikasi Pada Pemetaan Tutupan Lahan di Provinsi DI Yogyakarta Tahun 2023. *Prosiding Seminar Nasional Sains Data*, 4(1), 624–635. <https://doi.org/10.33005/senada.v4i1.295>
- Zulfajri, Danoedoro, P., & Murti, S. H. (2021). Klasifikasi Tutupan Lahan Data Landsat-8 OLI Menggunakan Metode Random Forest. *Jurnal Penginderaan Jauh Indonesia*, 03(01), 1–7.