

DAFTAR PUSTAKA

- Aburas, M. M., Yuek, M. H., Ramli, M. F., & Ash'aari, Z. H. (2016). The simulation and prediction of spatio-temporal urban growth trends using cellular automata models: A review. *International Journal of Applied Earth Observation and Geoinformation*, 52, 380–389.
- Adrian, & Nugratama, S. (2020a). Estimasi Besaran Emisi Karbon di Kabupaten Banyumas (Studi Kasus Tahun 2005-2016). *Jurnal Ilmiah Pendidikan Geografi*, 1(1).
- Agung Pramono, D. (2020). *Sistem Informasi Geografis untuk Studi Perubahan Tutupan Lahan Vegetasi dan Non-Vegetasi di Desa Benhes Geographic Information System for the Study of Changes in Vegetation and Non-Vegetation Land Cover in Benhes Village*. 16(01), 54.
- Almegi, Syafaruddin, Akmal, Alfiah, Nelvawita, & Novita, Y. (2022). Sebaran Spasial Titik Panas (Hotspot) Berdasarkan Penutupan Lahan di Kabupaten Pesisir Selatan. *El-Jughrafiyah*, 02(01).
- Amalia, R., Dharmawan, A. H., Prasetyo, L. B., & Pacheco, P. (2019). Perubahan Tutupan Lahan Akibat Ekspansi Perkebunan Kelapa Sawit: Dampak Sosial, Ekonomi dan Ekologi. *Jurnal Ilmu Lingkungan*, 17(1), 130. <https://doi.org/10.14710/jil.17.1.130-139>
- Aryanto Boreel. (2025). *Urban Planning Modelling (LandUse Change)*.
- BAPPENAS. (2020). *PENCAPAIAN PELAKSANAAN PENCAPAIAN TUJUAN PEMBANGUNAN BERKELANJUTAN/ SUSTAINABLE DEVELOPMENT GOALS (TPB/SDGs)*.
- Bian, Z., Liu, L., & Ding, S. (2021). Analysis of forest landscape restoration based on landscape connectivity: A case study in the yi river basin, china, during 2015–2020. *Land*, 10(9). <https://doi.org/10.3390/land10090904>

- Chazdon, R. L., Brancalion, P. H. S., Laestadius, L., Bennett-Curry, A., Buckingham, K., Kumar, C., Moll-Rocek, J., Vieira, I. C. G., & Wilson, S. J. (2016). When is a forest a forest? Forest concepts and definitions in the era of forest and landscape restoration. *Ambio*, 45(5), 538–550.
<https://doi.org/10.1007/s13280-016-0772-y>
- Chen, D., & Wei, H. (2019). The effect of spatial autocorrelation and class proportion on the accuracy measures from different sampling designs. *ISPRS Journal of Photogrammetry and Remote Sensing*, 64(2), 140–150.
- Crouzeilles, R., Ferreira, M. S., Chazdon, R. L., Lindenmayer, D. B., Sansevero, J. B. B., Monteiro, L., Iribarrem, A., Latawiec, A. E., & Strassburg, B. B. N. (2019). Ecological restoration success is higher for natural regeneration than for active restoration in tropical forests. *Science Advice*.
- Davik, Sudia, L. B., Kahirun, & Ramadhan, M. R. (2024). Penggunaan Teknologi Sistem Informasi Geografis Untuk Evaluasi Penutupan Lahan Di Daerah Aliran Sungai Lasolo. *Jurnal Minfo Polgan*, 13(2).
<https://doi.org/10.33395/jmp.v13i2.14558>
- EcoNusantara. (2024). *Siak Hijau, Kolaborasi Multipihak Memecah Kebuntuan Penanganan Kebakaran Hutan*.
- FAO, & UNEP. (2020). *The State of the World's Forests 2020*.
- Febriani, I., Prasetyo, L. B., & Dharmawan, A. H. (2017). ANALISIS DEFORESTASI MENGGUNAKAN REGRESI LOGISTIK MODEL DI TAHURA SEKITAR TANJUNG PROVINSI JAMBI. *Jurnal Pengelolaan Sumberdaya Alam Dan Lingkungan*, 7(3), 195–203.
<https://doi.org/10.19081/jpsl.2017.7.3.195>
- Global Forest Watch. (2025). *Siak, Indonesia, Riau Deforestation Rates & Statistics*.
- Greenpeace Indonesia. (2025). *Bagai Api Dalam “Sekam” Data*. Greenpeace.

- Harrison, M. E., Deere, N. J., Imron, M. A., Nasir, D., Adul, Asti, H. A., Soler, J. A., Boyd, N. C., Cheyne, S. M., Collins, S. A., D'Arcy, L. J., Erb, W. M., Green, H., Healy, W., Hendri, Holly, B., Houlihan, P. R., Husson, S. J., Iwan, ... Struebig, M. J. (2024). Impacts of fire and prospects for recovery in a tropical peat forest ecosystem. *Proceedings of the National Academy of Sciences of the United States of America*, 121(17).
<https://doi.org/10.1073/pnas.2307216121>
- Hasanah, A. (2017). *MODEL SPASIAL RESTORASI EKOLOGI PADA HUTAN HUJAN TROPIS BANGGAI KEPULAUAN*. Universitas Indonesia.
- Hidayat, F. (2022). *FOTOGRA METRI DAN PENGINDERAAN JAUH*. UMSB Press (Anggota APPTIMA).
- Hooijer, A., Vernimmen, R., Mulyadi, D., Triantomo, V., Hamdani, Lampela, M., Agusti, R., Page, S. E., Doloksaribu, J., Setiawan, I., Suratmanto, B., & Swarup, S. (2024). Benefits of tropical peatland rewetting for subsidence reduction and forest regrowth: results from a large-scale restoration trial. *Scientific Reports*, 14(1). <https://doi.org/10.1038/s41598-024-60462-3>
- Hoscilo, A., Page, S. E., & Tansey, K. (2004). Development of post-fire vegetation in the tropical ecosystem of Central Kalimantan, Indonesia. *Tropical Peatlands*.
- Isnaini, D. N., & Agustina, N. (2014). *Determinants of Deforestation in Kalimantan*.
- Jansen, L. J. M., & Gregorio, A. Di. (2000). Land Cover Classification System (LCCS): Classification Concepts and User Manual. . . *Environment and Natural Resources Service*.
<https://www.researchgate.net/publication/229839605>
- Joseph F. Hair Jr, William C. Black, Barry J. Babin, & Rolph E. Anderson. (2010). *Multivariate Data Analysis: A Global Perspective* (7th Edition). New Jersey: Pearson Prentice Hall.

- Kementerian Lingkungan Hidup. (2025). *KLH/BPLH Dukung Penyusunan RPPEG Siak 2026–2055 untuk Perkuat Perlindungan Ekosistem Gambut*.
- Kementerian Lingkungan Hidup dan Kehutanan. (2024). *Keputusan Menteri Lingkungan Hidup dan Kehutanan Republik Indonesia No. 398 Tahun 2024*.
- Kumar, R., Nandy, S., Agarwal, R., & Kushwaha, S. P. S. (2014). Forest cover dynamics analysis and prediction modeling using logistic regression model. *Ecological Indicators*, 45, 444–455.
<https://doi.org/10.1016/j.ecolind.2014.05.003>
- Landis, J. R., & Koch, G. (1977). *The measurement of observer agreement for categorical data* (1st ed., Vol. 33).
- Lillesand, T. M., Kiefer, R. W., & Chipman, J. W. (2015). *Remote Sensing and Image Interpretation* (J. Wiley & Sons, Eds.; 7th ed.).
- LindungiHutan. (2022). *Deforestasi: Pengertian, Penyebab, Dampak dan Pencegahan*.
- Lingkar Temu Kabupaten Lestari. (2019). *KABUPATEN HIJAU, KOLABORASI KABUPATEN SIAK CEGAH KARHUTLA*. LTKL.
- Maxwell, A. E., Warner, T. A., & Fang, F. (2018). Implementation of machine-learning classification in remote sensing: An applied review. In *International Journal of Remote Sensing* (Vol. 39, Number 9, pp. 2784–2817). Taylor and Francis Ltd. <https://doi.org/10.1080/01431161.2018.1433343>
- Menard, S. (2002). *Applied Logistic Regression Analysis: Sage University Series on Quantitative Applications in the Social Sciences*. (Vol. 06).
- Mori, A. S., Lertzman, K. P., & Gustafsson, L. (2017). Biodiversity and ecosystem services in forest ecosystems: a research agenda for applied forest ecology. *Journal of Applied Ecology*, 54(1), 12–27. <https://doi.org/10.1111/1365-2664.12669>

- Nahib, I., & Suryanta, J. (2017). Forest cover dynamics analysis and prediction modelling using logistic regression model (case study: Forest cover at Indragiri Hulu Regency, Riau Province). *IOP Conference Series: Earth and Environmental Science*, 54(1). <https://doi.org/10.1088/1755-1315/54/1/012044>
- Nurfajar, M., Gumelar, N., Hermawan, E., & Kamilah, N. (2024). IMPLEMENTASI METODE CELLULAR AUTOMATA LOGISTIC REGRESSION UNTUK ANALISIS PENERAPAN DAN SIMULASI PREDIKSI PENGGUNAN LAHAN DI KOTA BOGOR. In *Jurnal Mahasiswa Teknik Informatika* (Vol. 8, Number 4).
- O'Brien, R. M. (2007). A caution regarding rules of thumb for variance inflation factors. *Quality and Quantity*, 41(5), 673–690. <https://doi.org/10.1007/s11135-006-9018-6>
- Page, S. E., Graham, L., Hoscilo, A., & Limin, S. (2019). Vegetation restoration on degraded tropical peatlands: opportunities and barriers. *TROPICAL PEATLANDS*.
- Peraturan Daerah (Perda) Kabupaten Siak Nomor 4 Tahun 2022 Tentang Siak Kabupaten Hijau (2022).
- Pratiwi, E. C. (2024). *ANALISIS FAKTOR PENDORONG PERUBAHAN PENGGUNAAN/TUTUPAN LAHANDAN FRAGMENTASI LAHAN DI SEKITAR KAMPUS IPB DERMAGA*. Institut Pertanian Bogor.
- Pujiono, E., Sadono, R., Hartono, Imron, M. A., & Wirabuana, P. Y. A. P. (2023). Factors Contributing to Forest Degradation in the Mountainous Tropical Forest: A Case Study of the Mutis-Timau Forest Complex, Indonesia. *Journal of Sustainable Forestry*, 42(7), 675–694. <https://doi.org/10.1080/10549811.2022.2123349>

- Purwanto, E. H., & Lukiawan, R. (2019). PARAMETER TEKNIS DALAM USULAN STANDAR PENGOLAHAN PENGINDERAAN JAUH: METODE KLASIFIKASI TERBIMBING. *Jurnal Standarisasi*, 21(1), 67.
- Putra, I. D. G. A. P., Heryanto, E., Sopaheluwakan, A., Putra Pradana, R., & Haryoko, U. (2018). *SEBARAN SPASIAL DAN TEMPORAL TITIK PANAS (HOTSPOT) DI INDONESIA DARI SATELIT MODIS DENGAN METODE GRIDDING*.
- Rodriguez-Galiano, V. F., Ghimire, B., Rogan, J., Chica-Olmo, M., & Rigol-Sánchez, 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, 93–104.
- Saadi, I., Wong, M., Farooq, B., Teller, J., & Cools, M. (2017). *An investigation into machine learning approaches for forecasting spatio-temporal demand in ride-hailing service*. <http://arxiv.org/abs/1703.02433>
- SEDAGHO Siak, & Pemerintah Kabupaten Siak. (2019). *Peta Jalan Siak Menuju Kabupaten Hijau*.
- Smits, I. W. (2017). *Pendekatan Baru Reforestasi Hutan Menggunakan Sistem Agroforestry Berskala Besar*. Diskusi Pojok Iklim.
- Sugiyono. (2019). *Metode Penelitian dan Pengembangan (R&D): Konsep, Jenis, Tahapan dan Kelebihan*. Alfabeta.
- Suryadi, I. (2021). *Panduan Aplikasi PENGINDERAAN JAUH Tingkat Dasar*. Tropenbos Internasional Indonesia.
- Susetyo, I., Balai, S., Getas, P., & Km, J. P. (n.d.). *The Application of Remote Sensing for Supporting Sustainable Land Management System in Rubber Plantation*.
- Susilo, B. (2011). MODELING SPATIAL INTEGRATION PROBABILISTIC MARKOV CHAIN AND CELLULAR AUTOMATA FOR THE STUDY OF

LAND USE CHANGES REGIONAL SCALE IN DIY YOGYAKARTA.

Jurnal Geografi GEA, 11.

- Tangkasi.id. (2024). *Siak Hijau, Kolaborasi Multipihak Memecah Kebuntuan Penanganan Kebakaran Hutan.*
- Tolimir, M., Kresović, B., Životić, L., Dragović, S., Dragović, R., Sredojević, Z., & Gajić, B. (2020). The conversion of forestland into agricultural land without appropriate measures to conserve SOM leads to the degradation of physical and rheological soil properties. *Scientific Reports*, 10(1).
<https://doi.org/10.1038/s41598-020-70464-6>
- Tristram, A., Lee, K., Carr, J. A., Ahmad, B., Ferisa, A., Handoko, Y., Harsono, R., Graham, L., Kabangnga, L., Kurniawan, P., Joseph, P., Keßler, A., Kuncoro, P., Prayunita, D., Priadjati, A., Purwanto, E., Russon, A., Sheil, D., Sylva, N., ... Foden, W. (2019). *Usaha reforestasi untuk iklim di hari esok Rekomendasi untuk memperkuat usaha konservasi orangutan dan ketahanan terhadap perubahan iklim di Taman Nasional Kutai, Indonesia.*
www.iucn.org
- Wiweka, Surlan, & Hawariyah, S. (2022). Standardization Information Classification and Land Cover-Based Spatial Data Optical Satellite Remote Sensing. *Jurnal Standarisasi*, 14(2), 83–87.
http://www.innoter.com/eng/remote_sensing/
- Yaduv, V. K., Srivastava, A. K., & Khare, P. K. (2018). Tropical Forest and Ecosystem Services in Indian Context. *Current World Environment*, 13(1), 151–158. <https://doi.org/10.12944/cwe.13.1.14>
- Zamani, M., Nikooy, M., & Tavankar, F. (2020). Effects of forest roads on species composition of trees regeneration in selection cutting management of high forests. *Forestist*, 70(2), 151–159.
<https://doi.org/10.5152/forestist.2020.19022>

Zhou, T., Luo, X., Hou, Y., Xiang, Y., & Peng, S. (2020). Quantifying the effects of road width on roadside vegetation and soil conditions in forests. *Landscape Ecology*, 35(1), 69–81. <https://doi.org/10.1007/s10980-019-00930-8>

