



DAFTAR PUSTAKA

- Adrian, M. R., Putra, M. P., Rafialdy, M. H., & Rakhmawati, N. A. (2021). Perbandingan Metode Klasifikasi Random Forest Dan Svm Pada Analisis Sentimen Psbb. Jurnal Informatika Upgris, 7(1). <Https://Doi.Org/10.26877/Jiu.V7i1.7099>
- Anggraeni, F., Delani, S., & Dwinata, F. F. (2023). Analisis Perubahan Penggunaan Lahan Di Kecamatan Gunungpati Semarang Periode Tahun 2022. Jurnal Sains Geografi, 1(2). <Https://Doi.Org/10.2210/Jsg.Vx1ix.Xxx>
- Anggrainy, Y. I., & Johan Erwin Isharyanto. (2021). Implementasi Undang-Undang Nomor 41 Tahun 2009 Tentang Perlindungan Lahan Pertanian Pangan Berkelanjutan Sebagai Upaya Untuk Pengendalian Laju Alih Fungsi Lahan Pertanian Di Kota Semarang. Notary Law Research, 3(01).
- Anshory, M. I. (2019). Analisis Perubahan Luas Lahan Tambak Di Kawasan Pesisir Kecamatan Bungah, Kabupaten Gresik Menggunakan Citra Satelit [Skripsi]. Uin Sunan Ampel.
- Ardiansyah, A., Hernina, R., Suseno, W., Zulkarnain, F., Yanidar, R., & Rokhmatuloh, R. (2018). Percent Of Building Density (Pbd) Of Urban Environment: A Multi-Index Approach Based Study In Dki Jakarta Province. Indonesian Journal Of Geography, 50(2), 154. <Https://Doi.Org/10.22146/Ijg.36113>
- Baldi, G., Guerschman, J. P., & Paruelo, J. M. (2006). Characterizing Fragmentation In Temperate South America Grasslands. Agriculture, Ecosystems & Environment, 116(3–4), 197–208. <Https://Doi.Org/10.1016/J.Agee.2006.02.009>
- Bhandari, A. K., Kumar, A., & Singh, G. K. (2012). Feature Extraction Using Normalized Difference Vegetation Index (Ndvi): A Case Study Of Jabalpur City. Procedia Technology, 6, 612–621. <Https://Doi.Org/10.1016/J.Protcy.2012.10.074>
- Bps Provinsi Jawa Tengah. (1990). Jawa Tengah Dalam Angka 1990.



Bps Provinsi Jawa Tengah. (2002). Jawa Tengah Dalam Angka 2002.

Breiman, L., Friedman, J. H., Olshen, R. A., & Stone, C. J. (2017). Classification And Regression Trees. Routledge. <Https://Doi.Org/10.1201/9781315139470>

Budi Prasetyo, L. (2017). Pendekatan Ekologi Lanskap Untuk Konservasi Biodiversitas. Fakultas Kehutanan, Institut Pertanian Bogor.

Cardoso, G. F., Carlos Souza Jr., & Pedro Walfir M. Souza-Filho. (2013). Using Spectral Analysis Of Landsat-5 Tm Images To Map Coastal Wetlands In The Amazon River Mouth, Brazil. *Wetlands Ecology And Management*, 22, 79–92.

Cihlar, J., Manak, D., & D'iorio, M. (1994). Evaluation Of Compositing Algorithms For Avhrr Data Over Land. *Ieee Transactions On Geoscience And Remote Sensing*, 32(2), 427–437. <Https://Doi.Org/10.1109/36.295057>

De Alwis, D. A., Easton, Z., Dahlke, H. E., Philpot, W., De Alwis, D. A., Easton, Z. M., Dahlke, H. E., Philpot, W. D., & Steenhuis, T. S. (2007). Article In Hydrology And Earth System Sciences . . Hydrol. Earth Syst. Sci, 11, 1609–1620. <Https://Doi.Org/10.5194/Hessd-4-1663-2007>

Dewi, N. K., & Rudiarto, I. (2013). Identifikasi Alih Fungsi Lahan Pertanian Dan Kondisi Sosial Ekonomi Masyarakat Daerah Pinggiran Di Kecamatan Gunungpati Kota Semarang. *Jurnal Wilayah Dan Lingkungan*, 1(2), 175. <Https://Doi.Org/10.14710/Jwl.1.2.175-188>

Dinas Pertanian Kota Semarang. (2022). Pertanian Dalam Angka Kota Semarang 2022.

Dwiputra, M. A., & Mustofa, A. (2021). The Comparison Of Rgb 564 And Rgb 573 Band Composite Of Landsat 8 For Mangrove Vegetation Distribution Identification On Pahawang Island, Lampung. *Iop Conference Series: Earth And Environmental Science*, 830(1), 012017. <Https://Doi.Org/10.1088/1755-1315/830/1/012017>



- Emery, W., & Camps, A. (2017). The History Of Satellite Remote Sensing. Dalam Introduction To Satellite Remote Sensing (Hlm. 1–42). Elsevier.
<Https://Doi.Org/10.1016/B978-0-12-809254-5.00001-4>
- Ercan Gökyer. (2013). Understanding Landscape Structure Using Landscape Metrics. Dalam Murat Özyavuz (Ed.), Advances In Landscape Architecture. Intechopen.
- Ermiliansa, D., Samekto, A., & Purnaweni, H. (2013). Pengembangan Kawasan Konservasi Dengan Konsep Eco Edu Wisata Mangrove Di Dusun Tapak Kelurahan Tugurejo Kota Semarang. Seminar Nasional X Pendidikan Biologi Fkip Uns .
- Fang, H., & Liang, S. (2014). Leaf Area Index Models. Dalam Reference Module In Earth Systems And Environmental Sciences. Elsevier.
<Https://Doi.Org/10.1016/B978-0-12-409548-9.09076-X>
- Farda, N. M. (2017). Multi-Temporal Land Use Mapping Of Coastal Wetlands Area Using Machine Learning In Google Earth Engine. Iop Conference Series: Earth And Environmental Science, 98(1). <Https://Doi.Org/10.1088/1755-1315/98/1/012042>
- Flowers, B., Huang, K.-T., & Aldana, G. O. (2020). Analysis Of The Habitat Fragmentation Of Ecosystems In Belize Using Landscape Metrics. Sustainability, 12(7), 3024. <Https://Doi.Org/10.3390/Su12073024>
- Forman, R. T. T. (1995). Land Mosaics: The Ecology Of Landscapes And Regions. Cambridge University Press.
- Francini, S., Hermosilla, T., Coops, N. C., Wulder, M. A., White, J. C., & Chirici, G. (2023). An Assessment Approach For Pixel-Based Image Composites. Isprs Journal Of Photogrammetry And Remote Sensing, 202, 1–12.
<Https://Doi.Org/10.1016/J.Ispsjprs.2023.06.002>
- Gessesse, A. A., & Melesse, A. M. (2019). Temporal Relationships Between Time Series Chirps-Rainfall Estimation And Emmodis-Ndvi Satellite Images In Amhara Region, Ethiopia. Dalam Extreme Hydrology And Climate



Variability (Hlm. 81–92). Elsevier. <Https://Doi.Org/10.1016/B978-0-12-815998-9.00008-7>

Gomes, V., Queiroz, G., & Ferreira, K. (2020). An Overview Of Platforms For Big Earth Observation Data Management And Analysis. *Remote Sensing*, 12(8), 1253. <Https://Doi.Org/10.3390/Rs12081253>

Gorelick, N., Hancher, M., Dixon, M., Ilyushchenko, S., Thau, D., & Moore, R. (2017). Google Earth Engine: Planetary-Scale Geospatial Analysis For Everyone. *Remote Sensing Of Environment*, 202, 18–27. <Https://Doi.Org/10.1016/J.Rse.2017.06.031>

Hadi, M. A. , & M. R. Djarot Sadharto W. (2013). Urban Sprawl Di Kota Semarang: Karakteristik Dan Evaluasinya Terhadap Rencana Detail Tata Ruang Kota. *Jurnal Bumi Indonesia*, 2(4).

Hastari, N. R. F., Ningrum, E. R., Setyowati, P., Nadia, H., Putra, Q. I., Lutfiana, S., Akbar, M. R., Lestari, H. D., Ramadhan, M. F., Budiman, L. S., & Haryono, E. (2021). Spatial Pattern Analysis Of Land Cover Changes Using Fragstat In Kendal Delta, Kendal Regency, Central Java. *E3s Web Of Conferences*, 325. <Https://Doi.Org/10.1051/E3sconf/202132507003>

Hayes, T., Usami, S., Jacobucci, R., & Mcardle, J. J. (2015). Using Classification And Regression Trees (Cart) And Random Forests To Analyze Attrition: Results From Two Simulations. *Psychology And Aging*, 30(4), 911–929. <Https://Doi.Org/10.1037/Pag0000046>

He, C., Shi, P., Xie, D., & Zhao, Y. (2010). Improving The Normalized Difference Built-Up Index To Map Urban Built-Up Areas Using A Semiautomatic Segmentation Approach. *Remote Sensing Letters*, 1(4), 213–221. <Https://Doi.Org/10.1080/01431161.2010.481681>

Hermosilla, T., Francini, S., Nicolau, A. P., Wulder, M. A., White, J. C., Coops, N. C., & Chirici, G. (2024). Clouds And Image Compositing. Dalam Cloud-Based Remote Sensing With Google Earth Engine (Hlm. 279–302). Springer International Publishing. Https://Doi.Org/10.1007/978-3-031-26588-4_15



Hsiao, L.-H., & Cheng, K.-S. (2016). Assessing Uncertainty In Lulc Classification Accuracy By Using Bootstrap Resampling. *Remote Sensing*, 8(9), 705. <Https://Doi.Org/10.3390/Rs8090705>

Husni Maskuri, M., Pujiyati, P., Bayu Dharmayanti, P., Elysia Leandra, R., Studi Ilmu Sejarah, P., Studi Geografi, P., & Negeri Semarang, U. (2023). Analisis Dampak Banjir Bandang Semarang Tahun 1990 Terhadap Pembentukan Waduk Jatibarang. Dalam *Jurnal Implementasi* (Vol. 3, Nomor 2). <Http://Jurnalilmiah.Org/Journal/Index.Php/Ji/Index>

Indrawati, L., Hartono, & Sunarto. (2009). Klasifikasi Pohon Keputusan Untuk Kajian Perubahan Penggunaan Lahan Kota Semarang Menggunakan Citra Landsat Tm/Etm+. *Majalah Geografi Indonesia*, 23(2), 109–123.

Junaidi, M. (2015). Pengembangan Kawasan Industri Dalam Memaksimalkan Pendapatan Asli Daerah (Pad) Di Kota Semarang Suatu Perspektif Konsep Pembangunan Berkelanjutan. *J. Dinamika Sosbud*, 17(2), 57–68.

Kotsiantis, S. B. (2013). Decision Trees: A Recent Overview. *Artificial Intelligence Review*, 39(4), 261–283. <Https://Doi.Org/10.1007/S10462-011-9272-4>

Kowe, P., Mutanga, O., & Dube, T. (2021). Advancements In The Remote Sensing Of Landscape Pattern Of Urban Green Spaces And Vegetation Fragmentation. *International Journal Of Remote Sensing*, 42(10), 3797–3832. <Https://Doi.Org/10.1080/01431161.2021.1881185>

Kusrini. (2011). Perubahan Penggunaan Lahan Dan Faktor Yang Mempengaruhinya Di Kecamatan Gunungpati Kota Semarang. *Majalah Geografi Indonesia*, 25(1), 25–40.

Liang, S., & Jindi Wang. (2020). Compositing, Smoothing, And Gap-Filling Techniques. Dalam *Advanced Remote Sensing* (Hlm. 107–130). Elsevier. <Https://Doi.Org/10.1016/B978-0-12-815826-5.00003-9>

Lilik Kurniawan. (2003). Kajian Banjir Rob Di Kota Semarang (Kasus: Dadapsari). *Alami*, 8(2).



- Lillesand, T. M., & Kiefer, R. W. (1993). Penginderaan Jauh Dan Interpretasi Citra (Dulbahri & Susanto, Ed.). Gadjah Mada University Press.
- Loh, W. (2011). Classification And Regression Trees. Wires Data Mining And Knowledge Discovery, 1(1), 14–23. <Https://Doi.Org/10.1002/Widm.8>
- Lu, D., & Weng, Q. (2007). A Survey Of Image Classification Methods And Techniques For Improving Classification Performance. International Journal Of Remote Sensing, 28(5), 823–870. <Https://Doi.Org/10.1080/01431160600746456>
- Magure, M., Gumindoga, W., Makurira, H., & Rwasoka, D. T. (2022). Impacts Of Wetland Loss And Fragmentation On The Hydrology Of Zimbabwe's Highveld. Water Practice And Technology, 17(11), 2463–2483. <Https://Doi.Org/10.2166/Wpt.2022.107>
- Mahdavi, S., Salehi, B., Granger, J., Amani, M., Brisco, B., & Huang, W. (2018). Remote Sensing For Wetland Classification: A Comprehensive Review. Giscience & Remote Sensing, 55(5), 623–658. <Https://Doi.Org/10.1080/15481603.2017.1419602>
- Markham, B. L., Arvidson, T., Barsi, J. A., Choate, M., Kaita, E., Levy, R., Lubke, M., & Masek, J. G. (2018). Landsat Program. Dalam Comprehensive Remote Sensing (Hlm. 27–90). Elsevier. <Https://Doi.Org/10.1016/B978-0-12-409548-9.10313-6>
- Miswar, D., & Listumbinang Halengkara. (2016). Pengantar Penginderaan Jauh (Agus Suryantoro, Ed.; 1 Ed.). Mobius.
- National Research Council. (1995). Wetlands (National Research Council, Ed.). National Academies Press. <Https://Doi.Org/10.17226/4766>
- Nofrizal, A. Y. (2017). Normalized Difference Built-Upindex (Ndbi) Sebagai Parameter Identifikasi Perkembangan Permukiman Kumuh Pada Kawasan Pesisir Di Kelurahan Kalang Kawal, Kecamatan Gunung Kijang, Kabupaten Bintan. Tunas Geografi, 6(2), 143. <Https://Doi.Org/10.24114/Tgeo.V6i2.8572>



Novenda, S. B. (2023). Pemanfaatan Komputasi Awan Untuk Analisis Dinamika Perubahan Kawasan Lahan Basah Di Sebagian Kabupaten Bekasi. Universitas Gadjah Mada.

Novitzki, R. P., R. Daniel Smith, & Judy D. Fretwell. (2004). Restoration, Creation, And Recovery Of Wetlands Wetland Functions, Values, And Assessment. National Water Summary On Wetland Resources.

Payra, S., Sharma, A., & Verma, S. (2023). Application Of Remote Sensing To Study Forest Fires. Dalam Atmospheric Remote Sensing (Hlm. 239–260). Elsevier. [Https://Doi.Org/10.1016/B978-0-323-99262-6.00015-8](https://doi.org/10.1016/B978-0-323-99262-6.00015-8)

Peng, K., Jiang, W., Hou, P., Wu, Z., & Cui, T. (2024). Detailed Wetland-Type Classification Using Landsat-8 Time-Series Images: A Pixel- And Object-Based Algorithm With Knowledge (Pok). Giscience & Remote Sensing, 61(1). [Https://Doi.Org/10.1080/15481603.2023.2293525](https://doi.org/10.1080/15481603.2023.2293525)

Qi, J., Chehbouni, A., Huete, A. R., Kerr, Y. H., & Sorooshian, S. (1994). A Modified Soil Adjusted Vegetation Index. Remote Sensing Of Environment, 48(2), 119–126. [Https://Doi.Org/10.1016/0034-4257\(94\)90134-1](https://doi.org/10.1016/0034-4257(94)90134-1)

Rahmi, O., Susanto, R. H., & Siswanto, A. (2015). The Integrated Lowland Management In Mulia Sari, Tanjung Lago Subdistrict, Banyuasin Regency. Jurnal Ilmu Pertanian Indonesia, 20(3), 201–207. [Https://Doi.Org/10.18343/Jipi.20.3.201](https://doi.org/10.18343/jipi.20.3.201)

Ramsar Convention Secretariat. (2016). An Introduction To The Convention On Wetlands (Previously The Ramsar Convention Manual).

Rashid, I., & Aneaus, S. (2020). Landscape Transformation Of An Urban Wetland In Kashmir Himalaya, India Using High-Resolution Remote Sensing Data, Geospatial Modeling, And Ground Observations Over The Last 5 Decades (1965–2018). Environmental Monitoring And Assessment, 192(10), 635. [Https://Doi.Org/10.1007/S10661-020-08597-4](https://doi.org/10.1007/S10661-020-08597-4)

Rizqi, A. A. A., Arina Widia Ningtias, Rizqa Nadhifah, Dian Eliza Aquarista, & Hany Nurpratiwi. (2023). Penanaman Mangrove Guna Mengurangi Resiko



Banjir Di Sine Kecamatan Kalidawir Tulungagung. Journal Of Creative Student Research , 1(3), 2135.

Rudiarto, I., Handayani, W., Pigawati, B., & Panggi, P. (2013). Zona Peri-Urban Semarang Metropolitan: Perkembangan Dan Tipologi Sosial Ekonomi. Jurnal Tataloka, 15(2), 116. <Https://Doi.Org/10.14710/Tataloka.15.2.116-128>

Rwanga, S. S., & Ndambuki, J. M. (2017). Accuracy Assessment Of Land Use/Land Cover Classification Using Remote Sensing And Gis. International Journal Of Geosciences, 08(04), 611–622. <Https://Doi.Org/10.4236/Ijg.2017.84033>

Sahoo, S. K., Tang, D., & Dang, C. (2017). Single-Shot Multispectral Imaging With A Monochromatic Camera. Optica, 4(10), 1209. <Https://Doi.Org/10.1364/Optica.4.001209>

Salas, E. A. L., Kumaran, S. S., Bennett, R., Willis, L. P., & Mitchell, K. (2024). Machine Learning-Based Classification Of Small-Sized Wetlands Using Sentinel-2 Images. Aims Geosciences, 10(1), 62–79. <Https://Doi.Org/10.3934/Geosci.2024005>

Sampurno, R., & Thoriq, A. (2016). Klasifikasi Tutupan Lahan Menggunakan Citra Landsat 8 Operational Land Imager (Oli) Di Kabupaten Sumedang. Jurnal Teknotan, 10(2), 61–70. <Https://Doi.Org/10.24198/Jt.Vol10n2.9>

Setiani, H. D., Soedharma D., J. R., M. Situmorang, & H. Effendi. (2011). Pengelolaan Lahan Basah Pesisir Di Citarum Hilir Secara Berkelanjutan (Studi Kasus: Lahan Basah Muaragembong, Kabupaten Bekasi. Jurnal Tanah Dan Iklim, 34, 48–59.

Shlien, S., & Smith, A. (1975). A Rapid Method To Generate Spectral Theme Classification Of Landsat Imagery. Remote Sensing Of Environment, 4, 67–77. [Https://Doi.Org/10.1016/0034-4257\(75\)90006-1](Https://Doi.Org/10.1016/0034-4257(75)90006-1)

Simarmata, Nirmawana. (2017). Karakteristik Backscatter Citra Alos Palsar Polarisasi Hh Dan Hv Terhadap Parameter Biofisik Hutan Di Sebagian Taman



Nasional Kerinci Seblat. Journal Of Science And Application Technology, 2(1), 114–121. <Https://Doi.Org/10.35472/281441>

Singh, P., Singh, N., Singh, K. K., & Singh, A. (2021). Diagnosing Of Disease Using Machine Learning. Dalam Machine Learning And The Internet Of Medical Things In Healthcare (Hlm. 89–111). Elsevier. <Https://Doi.Org/10.1016/B978-0-12-821229-5.00003-3>

Stehman, S. V. (2009). Sampling Designs For Accuracy Assessment Of Land Cover. International Journal Of Remote Sensing, 30(20), 5243–5272. <Https://Doi.Org/10.1080/01431160903131000>

Subriantoro, R. B. (2023). Analisis Perubahan Penggunaan Lahan Di Kecamatan Semarang Barat Tahun 2000 – 2020 Dengan Menggunakan Analisis Input-Output. Universitas Diponegoro.

Suparjaka. (2012). Fragmentasi Spasial Pada Ekosistem Lahan Basah Berbasis Citra Multi Temporal Di Surabaya Dan Sekitarnya. Universitas Gadjah Mada.

Sutanto. (1986). Penginderaan Jauh (1 Ed.). Gadjah Mada University Press.

Usgs. (2019). Landsat 8 (L8) Data Users Handbook. Department Of The Interior Usgs.

Walz, U. (2011). Landscape Structure, Landscape Metrics And Biodiversity. Living Reviews In Landscape Research, 5. <Https://Doi.Org/10.12942/Lrlr-2011-3>

Wang, X., Gao, X., Zhang, Y., Fei, X., Chen, Z., Wang, J., Zhang, Y., Lu, X., & Zhao, H. (2019). Land-Cover Classification Of Coastal Wetlands Using The Rf Algorithm For Worldview-2 And Landsat 8 Images. Remote Sensing, 11(16). <Https://Doi.Org/10.3390/Rs11161927>

Wetlands. (1995). National Academies Press. <Https://Doi.Org/10.17226/4766>

Wijaya, A. (2017). Analisis Dinamika Pola Spasial Penggunaan Lahan Pada Wilayah Terdampak Kenaikan Muka Air Laut Di Kota Pekalongan. Institut Teknologi Sepuluh Nopember.



Wulder, M. A., & Coops, N. C. (2014). Satellites: Make Earth Observations Open Access. *Nature*, 513(7516), 30–31. [Https://Doi.Org/10.1038/513030a](https://doi.org/10.1038/513030a)

Zaidi, S. M., Akbari, A., Abu Samah, A., Kong, N., & Gisen, J. (2017). Landsat-5 Time Series Analysis For Land Use/Land Cover Change Detection Using Ndvi And Semi-Supervised Classification Techniques. *Polish Journal Of Environmental Studies*, 26(6), 2833–2840. [Https://Doi.Org/10.15244/Pjoes/68878](https://doi.org/10.15244/pjoes/68878)