

## DAFTAR PUSTAKA

- Ahmad, A., & Quegan, S. (2013). Comparative Analysis of Supervised and Unsupervised Classification on Multispectral Data. *Applied Mathematical Sciences*, 7(74), 3681–3694. <https://doi.org/10.12988/ams.2013.34214>
- Ariasari, A. (2019). *Pemetaan Komposisi Spesies, Tutupan, Dan Stok Karbon Lamun Atas Permukaan Dan Bawah Permukaan Tanah Menggunakan Citra ...* [Universitas Gadjah Mada]. <http://etd.repository.ugm.ac.id/penelitian/detail/183074>
- Astuty, I. S., & Wicaksono, P. (2019). Seagrass Species Composition and Above-Ground Carbon Stock Mapping in Parang Island using Planetscope Image. *Sixth Geoinformation Science Symposium*, 1131103. <https://doi.org/10.1117/12.2549137>
- Bengen, D. G. (2002). Ekosistem dan Sumberdaya Pesisir dan Laut serta Pengelolaan Secara Terpadu dan Berkelanjutan. *Prosiding Pelatihan Pengelolaan Wilayah Pesisir Terpadu. 29 Oktober-3 November 2001*, 28–55.
- Benjamini, Y., & Braun, H. (2002). John W. Tukey's Contributions to Multiple Comparisons. *The Annals of Statistics*, 30(6), 1576–1594.
- Blaschke, T. (2010). Object Based Image Analysis for Remote Sensing. *ISPRS Journal of Photogrammetry and Remote Sensing*, 65(1), 2–16. <https://doi.org/10.1016/j.isprsjprs.2009.06.004>
- Breiman, L. (2001). *Random forest*. *Machine Learning*, 45(1), 5–32. <https://doi.org/10.1109/ICCECE51280.2021.9342376>
- Chavez, P. S. (1988). An improved dark-object subtraction technique for atmospheric scattering correction of multispectral data. *Remote Sensing of Environment*, 24(3), 459–479. [https://doi.org/10.1016/0034-4257\(88\)90019-3](https://doi.org/10.1016/0034-4257(88)90019-3)
- Congalton, R. G., & Green, K. (2019). Assessing the Accuracy of Remotely Sensed Data: Principles and Practices. In *CRC Press, Taylor & Francis Group, LLC* (Third Edit). CRC Press, Taylor & Francis Group, LLC.

- Danoedoro, P. (2012). *Pengantar Penginderaan Jauh Digital*. Penerbit Andi.
- Dekker, A., Brando, V., Anstee, J., Fyfe, S., Malthus, T., & Karpouzli, E. (2006). Remote Sensing of Seagrass Ecosystems: Use of Spaceborne and Airborne Sensors. In *Seagrasses: Biology, Ecology and Conservation* (pp. 347–359). Springer. [https://doi.org/10.1007/978-1-4020-2983-7\\_15](https://doi.org/10.1007/978-1-4020-2983-7_15)
- Dewi, N. K., Mulyadi, S. Y., & Syafitri, U. D. (2011). The Application of *Random forest* in Driver Analysis. *Forum Statistika Dan Komputasi*, 16(1), 35–43. <http://journal.ipb.ac.id/index.php/statistika/article/view/5443>
- Digital Globe. (2009). *Digital Globe Core Imagery Products Guide*. Digital Globe. [https://www.digitalglobe.com/downloads/DigitalGlobe\\_Core\\_Imagery\\_Products\\_Guide.pdf](https://www.digitalglobe.com/downloads/DigitalGlobe_Core_Imagery_Products_Guide.pdf)
- Duarte, C. M., Sintes, T., & Marbà, N. (2013). Assessing the CO<sub>2</sub> Capture Potential of Seagrass Restoration Projects. *Journal of Applied Ecology*, 50(6), 1341–1349. <https://doi.org/10.1111/1365-2664.12155>
- Eugenio, F., Marcello, J., Martin, J., & Rodríguez-Esparragón, D. (2017). Benthic habitat mapping using multispectral high-resolution imagery: Evaluation of shallow water atmospheric correction techniques. *Sensors (Switzerland)*, 17(11). <https://doi.org/10.3390/s17112639>
- Fajarwati, S. D., Setianingsih, A. I., & Muzani, M. (2015). Analisis Kondisi Lamun (Seagrass) Di Perairan Pulau Pramuka, Kepulauan Seribu. In *Jurnal SPATIAL Wahana Komunikasi dan Informasi Geografi* (Vol. 13, Issue 1, pp. 22–32). <https://doi.org/10.21009/spatial.131.03>
- Fajeri, F., Lestari, F., & Susiana, S. (2020). Gastropod Association in Seagrass Ecosystems Senggarang Besar Waters, Riau Islands, Indonesia. *Akuatikisle: Jurnal Akuakultur, Pesisir Dan Pulau-Pulau Kecil*, 4(2), 53–58. <https://doi.org/10.29239/j.akuatikisle.4.2.53-58>
- Giyanto, Abrar, M., Hadi, T. A., Budiyanto, A., Hafizt, M., Salatalohy, A., & Iswari, M. Y. (2017). *Status Terumbu Karang Di Indonesia 2017* (Suharsono (ed.)). Pusat Penelitian Oseanografi - LIPI.
- Gonzalez, R. C., & Woods, R. E. (2008). Digital Image Processing. In *SANITAS: Jurnal Teknologi dan Seni Kesehatan* (Vol. 9, Issue 2). Pearson Prentice

- Hall. <https://doi.org/10.36525/sanitas.2018.11>
- Goodman, J. A., Lee, Z. P., & Ustin, S. L. (2008). Influence of Atmospheric and Sea-Surface Corrections on Retrieval of Bottom Depth and Reflectance Using a Semi-Analytical Model: A Case Study in Kaneohe Bay, Hawaii. *Applied Optics*, 47(28), F1–F11. <https://doi.org/10.1364/AO.47.0000F1>
- Hamylton, S. M. (2017). Mapping Coral Reef Environments: A Review of Historical Methods, Recent Advances and Future Opportunities. *Progress in Physical Geography*, 41(6), 803–833. <https://doi.org/10.1177/0309133317744998>
- Harris, P. T., & Baker, E. K. (2012). Why Map Benthic Habitats? In *Seafloor Geomorphology as Benthic Habitat*. Elsevier Inc. <https://doi.org/10.1016/B978-0-12-385140-6.00001-3>
- Hedley, J. D., Harborne, A. R., & Mumby, P. J. (2005). Technical Note: Simple and Robust Removal of Sun glint for Mapping Shallow-Water Benthos. *International Journal of Remote Sensing*, 26(10), 2107–2112.
- Hedley, J. D., Roelfsema, C., Brando, V., Giardino, C., Kutser, T., Phinn, S., Mumby, P. J., Barrilero, O., Laporte, J., & Koetz, B. (2018). Coral Reef Applications of Sentinel-2: Coverage, Characteristics, Bathymetry and Benthic Mapping with Comparison to Landsat 8. *Remote Sensing of Environment*, 216, 598–614. <https://doi.org/10.1016/j.rse.2018.07.014>
- Hochberg, E. J., Andréfouët, S., & Tyler, M. R. (2003). Sea Surface Correction of High Spatial Resolution Ikonos Images to Improve Bottom Mapping in Near-Shore Environments. *IEEE Transactions on Geoscience and Remote Sensing*, 41(7), 1724–1729. <https://doi.org/10.1109/TGRS.2003.815408>
- Hossain, M. D., & Chen, D. (2019). Segmentation for Object-Based Image Analysis (OBIA): A review of algorithms and challenges from remote sensing perspective. *ISPRS Journal of Photogrammetry and Remote Sensing*, 150, 115–134. <https://doi.org/10.1016/j.isprsjprs.2019.02.009>
- Ichwan, M., Dewi, I. A., & S, Z. M. (2018). Klasifikasi Support Vector Machine (SVM) Untuk Menentukan TingkatKemanisan Mangga Berdasarkan Fitur Warna. *MIND Journal*, 3(2), 16–23.

<https://doi.org/10.26760/mindjournal.v3i2.16-23>

- Ilyas, T. P., Nababan, B., Madduppa, H., & Kushardono, D. (2020). Seagrass Ecosystem Mapping with And Without Water Column Correction In PajeneKang Island Waters, South Sulawesi. *Jurnal Ilmu Dan Teknologi Kelautan Tropis*, 12(1), 9–23.
- Jensen, J. R. (2014). Remote Sensing of The Environment: An Earth Resource Perspective. In *Pearson Education Limited* (2nd ed.).
- Jensen, J. R. (2015). *Introductory Digital Image Processing: A Remote Sensing Perspective* (4th ed.). Pearson Education Inc.
- Kalinda, I. O. P., Sasmito, B., & Sukmono, A. (2018). Analisis Pengaruh Koreksi Atmosfer Terhadap Deteksi Land Surface Temperature Menggunakan Citra Landsat 8 di Kota Semarang. *Jurnal Geodesi Undip*, 7(3), 66–76.
- Kamal, M., & Wicaksono, P. (2017). Spectral Response of Healthy and Damaged Leaves of Tropical Seagrass Enhalus Acoroides, Thalassia Hemprichii, and Cymodocea Rotundata. *Remote Sensing for Agriculture, Ecosystems, and Hydrology XIX*, 10421. <https://doi.org/10.1117/12.2278027>
- Karawoe, M. (2009). Perspektif Lamun Sebagai Blue Carbon Sink di Laut. *Lokakarya Lamun*.
- Kay, S., Hedley, J. D., & Lavender, S. (2009). Sun Glint Correction of High and Low Spatial Resolution Images of Aquatic Scenes: A Review of Methods for Visible and Near-Infrared Wavelengths. *Remote Sensing*, 1(4), 697–730. <https://doi.org/10.3390/rs1040697>
- Kristianingsih, L., Arwan Putra Wijaya, & Sukmono, A. (2016). Analisis Pengaruh Koreksi Atmosfer Terhadap Estimasi Kandungan Klorofil-A Menggunakan Citra Landsat 8. *Jurnal Geodesi Undip*, 5(4), 56–64.
- Kumar, Y., & Sahoo, G. (2012). Analysis of Parametric & Non Parametric Classifiers for Classification Technique using WEKA. *International Journal of Information Technology and Computer Science*, 4(7), 43–49. <https://doi.org/10.5815/ijitcs.2012.07.06>
- Kuo, J. (2007). New monoecious seagrass of *Halophila sulawesii* (Hydrocharitaceae) from Indonesia. *Aquatic Botany*, 87(2), 171–175.

<https://doi.org/10.1016/j.aquabot.2007.04.006>

- Kuriandewa, T. E., Kiswara, W., Hutomo, M., & Soemodihardjo, S. (2003). The Seagrass on Indonesia. In *World Atlas of Seagrasses*. UNEP-WCMC by the University of California Press. <https://doi.org/10.5860/choice.41-3160>
- Kushardono, D. (2019). *Klasifikasi Digital Data Penginderaan Jauh Mendukung Percepatan Penyediaan Informasi Geospasial* (Issue August). Lembaga Penerbangan dan Antariksa Nasional.
- Kutser, T., Vahtmäe, E., & Praks, J. (2009). A Sun Glint Correction Method for Hyperspectral Imagery Containing Areas with Non-Negligible Water Leaving NIR Signal. *Remote Sensing of Environment*, 113(10), 2267–2274. <https://doi.org/10.1016/j.rse.2009.06.016>
- Lillesand, T. M., Kiefer, R. W., & Chipman, J. W. (2015). *Remote Sensing and Image Interpretation* (7th ed.). John Wiley & Sons, Inc.
- Lyzenga, D. R. (1981). Remote Sensing of Bottom Reflectance and Water Attenuation Parameters in Shallow Water using Aircraft and Landsat Data. *International Journal of Remote Sensing*, 2(1), 71–82. <https://doi.org/10.1080/01431168108948342>
- Lyzenga, D. R., Malinas, N. P., & Tanis, F. J. (2006). Multispectral Bathymetry Using a Simple Physically Based Algorithm. *IEEE Transactions on Geoscience and Remote Sensing*, 44(8), 2251–2259. <https://doi.org/10.1109/TGRS.2006.872909>
- Manessa, M. D. M., Haidar, M., Budhiman, S., Winarso, G., Kanno, A., Sagawa, T., & Sekine, M. (2016). Evaluating the Performance of Lyzenga’s Water Column Correction in Case-1 Coral Reef Water using a Simulated Worldview-2 Imagery. *IOP Conference Series: Earth and Environmental Science*, 47. <https://doi.org/10.1088/1755-1315/47/1/012018>
- Manurung, Nia D., Kondoy, Khristin I F., Rondonuwu, Ari B., Mantiri, Rose O. S. E., Manengkey, Hemanto., Manado, S. R. (2022). Struktur Komunitas Lamun (Seagrass) Di Pantai Meras Manado Sulawesi Utara. *Jurnal Ilmiah PLATAX*, 10(1), 98–107.
- Marcello, J., Eugenio, F., Martín, J., & Marqués, F. (2018). Seabed Mapping in

- Coastal Shallow Waters Using High Resolution Multispectral and Hyperspectral Imagery. *Remote Sensing*, 10(8), 1208–1229. <https://doi.org/10.3390/rs10081208>
- Marhaento, H. (2009). *Pengolahan Citra Digital Dengan Envi 4.1. Aplikasi Sistem Informasi Geografis (Sig) Dasar Untuk Pelaksana Lapangan*. Universitas Gadjah Mada.
- Marini, Y., Hawariyah, S., Hartuti, M., & Emiyati. (2014). Perbandingan Metode Klasifikasi Supervised Maximum Likelihood dengan Klasifikasi Berbasis Objek untuk Inventarisasi Lahan Tambak di Kabupaten Maros. *Prosiding Seminar Nasional Penginderaan Jauh*, 505–516.
- Maulana, M., Awaluddin, M., & Janu, F. A. (2017). Analisis Pengaruh Perubahan Garis Pantai Terhadap Batas Pengelolaan Wilayah Laut Provinsi Jawa Timur dan Provinsi Bali di Selat Bali. *Jurnal Geodesi Undip*, 6(4), 342–350.
- McKenzie, L., Campbell, S., & C, R. (2003). *Seagrasswatch: Manual for Mapping & Monitoring Seagrass Resources by Community (Citizen) Volunteers 2sd edition*. The state of Queensland, Department of Primary Industries, CRC Press.
- MNLH. (2004). Keputusan Menteri Negara Lingkungan Hidup Nomor: 200 Tahun 2004 Tentang Kriteria Baku Kerusakan Dan Pedoman Penentuan Status Padang Lamun. In *Menteri Negara Lingkungan Hidup Republik Indonesia*.
- Mona, M., Kekenusa, J., & Prang, J. (2015). Penggunaan Regresi Linear Berganda untuk Menganalisis Pendapatan Petani Kelapa: Studi Kasus: Petani Kelapa Di Desa Beo, Kecamatan Beo Kabupaten Talaud. *Jurnal Matematika Dan Aplikasi*, 4(2), 196–203. <https://doi.org/10.35799/dc.4.2.2015.9211>
- Muchsin, F., Fibriawati, L., & Pradhono, K. A. (2017). Model Koreksi Atmosfer Citra Landsat-7 (Atmospheric Correction Models of Landsat-7 Imagery). *Jurnal Penginderaan Jauh Dan Pengolahan Data Citra Digital*, 14(2), 101–110. <https://doi.org/10.30536/j.pjpdcd.1017.v14.a2595>
- Mumby, P. J., Clark, C. D., Green, E. P., & Edwards, A. J. (1998). Benefits of Water

- Column Correction and Contextual Editing for Mapping Coral Reefs. *International Journal of Remote Sensing*, 19(1), 203–210. <https://doi.org/10.1080/014311698216521>
- Mumby, P. J., & Edwards, A. J. (2002). Water Column Correction Techniques. In *Remote Sensing Handbook for Tropical Coastal Management* (pp. 109–120). UNESCO Publishing.
- Mumby, P. J., & Harborne, A. R. (1999). Development of a Systematic Classification Scheme of Marine Habitats to Facilitate Regional Management and Mapping of Caribbean Coral Reefs. *Biological Conservation*, 88(2), 155–163. [https://doi.org/10.1016/S0006-3207\(98\)00108-6](https://doi.org/10.1016/S0006-3207(98)00108-6)
- Murdiyarso, D., Purbopuspito, J., Boone, J. K., Warren, M. W., Sasmito, S. D., Donato, D. C., Manuri, S., Krisnawati, H., Taberima, S., & Kurnianto, S. (2015). The Potential of Indonesian Mangrove Forests for Global Climate Change Mitigation. *Nature Climate Change*, 5(12), 1089–1092. <https://doi.org/10.1109/iccsp.2017.8286346>
- Nordlund, L. M., Koch, E. W., Barbier, E. B., C. J. C. (2016). Seagrass ecosystem services and their variability across genera and geographical regions. *PLoS ONE*, 11(10), 1–23. <https://doi.org/10.1371/journal.pone.0163091>
- Nugroho, A. S., Witarto, A. B., & Handoko, D. (2003). Application of Support Vector Machine in Bioinformatics. *Proceeding of Indonesian Scientific Meeting in Central Japan, December 20, 2003*. [https://doi.org/10.1007/978-3-031-16990-8\\_13](https://doi.org/10.1007/978-3-031-16990-8_13)
- Nurmasari, Y., & Wijayanto, A. W. (2021). Oil Palm Plantation Detection in Indonesia Using Sentinel-2 and Landsat-8 Optical Satellite Imagery (Case Study: Rokan Hulu Regency, Riau Province). *International Journal of Remote Sensing and Earth Sciences (IJReSES)*, 18(1), 1. <https://doi.org/10.30536/j.ijreses.2021.v18.a3537>
- Nyabakken, J. W. (1982). *Marine Biology: An Ecological Approach - Book Reviews* (3rd ed.). Harper Collins College Publisher.
- Philpot, W. (2007). Estimating Atmospheric Transmission and Surface Reflectance

- From a Glint-Contaminated Spectral Image. *IEEE Transactions on Geoscience and Remote Sensing*, 45(2), 448–457. <https://doi.org/10.1109/TGRS.2006.887161>
- Phinn, S. R., Chris M, R., & Mumby, P. J. (2012). Multi-Scale, Object-Based Image Analysis for Mapping Geomorphic and Ecological Zones on Coral Reefs. *International Journal of Remote Sensing*, 33, 3768–3797.
- Phinn, S., Roelfsema, C., Dekker, A., Brando, V., & Anstee, J. (2008). Mapping Seagrass Species, Cover and Biomass in Shallow Waters: An Assessment of Satellite Multi-spectral and Airborne Hyper-spectral Imaging Systems in Moreton Bay (Australia). *Remote Sensing of Environment*, 112(8), 3413–3425. <https://doi.org/10.1016/j.rse.2007.09.017>
- Rahadiati, A., Soewardi, K., Wardiatno, Y., & Sutrisno, D. (2018). Pemetaan Sebaran Budidaya Rumput Laut: Pendekatan Analisis Multispektral dan Multitemporal (Studi Kasus di Kabupaten Takalar Sulawesi Selatan). *Majalah Ilmiah Globe*, 20(1), 13–22. <https://doi.org/10.24895/mig.2018.20-1.718>
- Ratnasari, R. N., Helmi, M., & Rochaddi, B. (2015). Studi Sebaran Konsentrasi Material Padatan Tersuspensi menggunakan Citra Satelit Landsat-8 di Perairan Teluk Balikpapan Kalimantan Timur. *Jurnal Oseanografi*, 4(4), 741–749.
- Riswanto, E. (2009). Evaluasi Akurasi Klasifikasi Penutup Lahan menggunakan Citra Alos Palsar Resolusi Rendah Studi Kasus di Pulau Kalimantan [Institut Pertanian Bogor]. In *Institut Pertanian Bogor*. [http://downloads.esri.com/archydro/archydro/Doc/Overview of Arc Hydro terrain preprocessing workflows.pdf](http://downloads.esri.com/archydro/archydro/Doc/Overview%20of%20Arc%20Hydro%20terrain%20preprocessing%20workflows.pdf) <https://doi.org/10.1016/j.jhydrol.2017.11.003> <http://sites.tufts.edu/gis/files/2013/11/Watershed-and-Drainage-Delineation-by-Pour-Point.pdf> [www](http://www)
- Rochmady, R. (2010). Rehabilitasi Ekosistem Padang Lamun. *SSRN Electronic Journal*, 1–25. <https://doi.org/10.2139/ssrn.3045214>
- Roelfsema, C. M., Kovacs, E. M., & Phinn, S. R. (2015). Field Data Sets for

- Seagrass Biophysical Properties for the Eastern Banks, Moreton Bay, Australia, 2004-2014. *Scientific Data*, 2, 1–6. <https://doi.org/10.1038/sdata.2015.40>
- Roelfsema, C. M., Lyons, M., Kovacs, E. M., Maxwell, P., Saunders, M. I., Samper-Villarreal, J., & Phinn, S. R. (2014). Multi-temporal Mapping of Seagrass Cover, Species and Biomass: A Semi-automated Object Based Image Analysis Approach. *Remote Sensing of Environment*, 150, 172–187. <https://doi.org/10.1016/j.rse.2014.05.001>
- Roelfsema, C., & Phinn, S. (2009). A Manual for Conducting Georeferenced Photo Transects Surveys to Assess the Benthos of Coral Reef and Seagrass Habitats. In *Centre for Remote Sensing and Spatial Information Science, The University of Queensland*.
- Roelfsema, C., & Phinn, S. (2010). Integrating Field Data with High Spatial Resolution Multispectral Satellite Imagery for Calibration and Validation of Coral Reef Benthic Community Maps. *Journal of Applied Remote Sensing*, 4(1), 043527. <https://doi.org/10.1117/1.3430107>
- Rustam, A. (2019). Pemantauan Ekosistem Lamun Pulau Pari Dan Pulau Tikus Monitoring of Seagrass Ecosystem At Pari Island and Tikus Island. *Jurnal Riset Jakarta*, 12(1), 7–15.
- Rustam, A., Adi, N. S., Daulat, A., Kiswara, W., Yusup, D. S., & Rappe, R. H. (2019). *Pedoman Pengukuran Karbon di Ekosistem Padang Lamun*. ITB Press. <https://www.ptonline.com/articles/how-to-get-better-mfi-results>
- Sagawa, T., Boisnier, E., Komatsu, T., Mustapha, K. Ben, Hattour, A., Kosaka, N., & Miyazaki, S. (2010). Using Bottom Surface Reflectance to Map Coastal Marine Areas: A New Application Method for Lyzenga's Model. *International Journal of Remote Sensing*, 31(12), 3051–3064. <https://doi.org/10.1080/01431160903154341>
- 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>
- Scornet, E. (2021). Trees, Forests, and Impurity-Based Variable Importance in

- Regression. *Annales de l'Institut Henri Poincaré, Probabilités et Statistiques*, 59(1), 1–40. <https://doi.org/10.1214/21-aihp1240>
- Septiani, R., Citra, I. P. A., & Nugraha, A. S. A. (2019). Perbandingan Metode Supervised Classification dan Unsupervised Classification terhadap Penutup Lahan di Kabupaten Buleleng. *Jurnal Geografi : Media Informasi Pengembangan Dan Profesi Kegeografian*, 16(2), 90–96. <https://doi.org/10.15294/jg.v16i2.19777>
- Setiawan, F., Harahap, S. A., Andriani, Y., & Hutahaean, A. (2012). Deteksi Perubahan Padang Lamun menggunakan Teknologi Penginderaan Jauh dan Kaitannya dengan Kemampuan Menyimpan Karbon di Perairan Teluk Banten. *Jurnal Perikanan Dan Kelautan*, 3(3), 275–286.
- Setiawati, T., Alifah, M., Mutaqin, A. Z., Nurzaman, M., Irawan, B., & Budiono, R. (2018). Studi Morfologi Beberapa Jenis Lamun di Pantai Timur dan Pantai Barat, Cagar Alam Pangandaran. *Jurnal Pro-Life*, 5(1), 487–495.
- Sjafrie, N. D. M., Hernawan, U. E., Prayudha, B., Rahmat, Supriyadi, I. H., Iswari, M. Y., Suyarso, Anggraini, K., & Rahmawati, S. (2018). Status padang lamun Indonesia 2018. In *Pusat Penelitian Oseanografi-LIPI*.
- Stepanek, L., Habarta, F., Mala, I., & Marek, L. (2022). A Short Note on Post-Hoc Testing using *Random forests* Algorithm: Principles, Asymptotic Time Complexity Analysis, and Beyond. *Proceedings of the 17th Conference on Computer Science and Intelligence Systems, FedCSIS 2022*, 30, 489–497. <https://doi.org/10.15439/2022F265>
- Tangke, U. (2010). Kajian Ekosistem Padang Lamun (Manfaat, Fungsi, dan Rehabilitasi). *Jurnal Ilmiah Agribisnis Dan Perikanan*, 3(1), 9–29.
- Thomlinson, P. B. (1974). Vegetative Morphology and Meristem Dependence - the Foundation of Productivity in Seagrass. *Aquaculture*, 4, 107–130.
- United Nations Environment Programme. (2014). *United Nations Environment Programme Annual Report 2014*. UNEP 2014 Annual Report. <https://www.unep.org/resources/annual-report/unep-2014-annual-report>
- Updike, T., & Comp, C. (2010). *Radiometric Use of WorldView-2 Imagery Technical Note 1 WorldView-2 Instrument Description*. DigitalGlobe.

- Wahidin, N., Siregar, V. P., Nababan, B., Jaya, I., & Wouthuyzen, S. (2015). Object-Based Image Analysis for Coral Reef Benthic Habitat Mapping with Several Classification Algorithms. *Procedia Environmental Sciences*, 24, 222–227. <https://doi.org/10.1016/j.proenv.2015.03.029>
- Wibowo, T. S., & Suharyadi, R. (2012). Aplikasi Object-Based Image Analysis (OBIA) untuk Deteksi Perubahan Penggunaan Lahan Menggunakan Citra ALOS AVNIR-2. *Jurnal Bumi Indonesia*, 1(3), 130–138. [https://doi.org/10.1007/978-3-540-79132-4\\_8](https://doi.org/10.1007/978-3-540-79132-4_8)
- Wicaksono, P. (2012). The Effect of Sunlint on Satellite-Based Benthic Habitat Identification. *International Journal of Advanced Research in Computer and Communication Engineering*, 1(6), 364–370.
- Wicaksono, P. (2016). Improving the Accuracy of Multispectral-Based Benthic Habitats Mapping using Image Rotations: The Application of Principle Component Analysis and Independent Componentanalysis. *European Journal of Remote Sensing*, 49(1), 433–463. <https://doi.org/10.5721/EuJRS20164924>
- Wicaksono, P., Aryaguna, P. A., & Lazuardi, W. (2019). Benthic habitat mapping model and cross validation using machine-learning classification algorithms. *Remote Sensing*, 11(11), 1–24. <https://doi.org/10.3390/rs11111279>
- Wicaksono, P., Danoedoro, P., Hartono, Nehren, U., Maishella, A., Hafizt, M., Arjasakusuma, S., & Harahap, S. D. (2021). Analysis of field seagrass percent cover and aboveground carbon stock data for non-destructive aboveground seagrass carbon stock mapping using worldview-2 image. *International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives*, 46(4/W6-2021), 321–327. <https://doi.org/10.5194/isprs-Archives-XLVI-4-W6-2021-321-2021>
- Wicaksono, P., Fauzan, M. A., Kumara, I. S. W., Yogyantoro, R. N., Lazuardi, W., & Zhafarina, Z. (2019a). Analysis of reflectance spectra of tropical seagrass species and their value for mapping using multispectral satellite images. *International Journal of Remote Sensing*, 40(23), 8955–8978.

<https://doi.org/10.1080/01431161.2019.1624866>

- Wicaksono, P., Fauzan, M. A., Kumara, I. S. W., Yogyantoro, R. N., Lazuardi, W., & Zhafarina, Z. (2019b). Analysis of Reflectance Spectra of Tropical Seagrass Species and Their Value for Mapping using Multispectral Satellite Images. *International Journal of Remote Sensing*, *40*(23), 8955–8978. <https://doi.org/10.1080/01431161.2019.1624866>
- Wicaksono, P., & Hafizt, M. (2013). Mapping seagrass from space: Addressing the complexity of seagrass LAI mapping. *European Journal of Remote Sensing*, *46*(1), 18–39. <https://doi.org/10.5721/EuJRS20134602>
- Wicaksono, P., & Hafizt, M. (2018). Dark target effectiveness for dark-object subtraction atmospheric correction method on mangrove above-ground carbon stock mapping. *IET Image Processing*, *12*(4), 582–587. <https://doi.org/10.1049/iet-ipr.2017.0295>
- Wicaksono, P., & Lazuardi, W. (2018). Assessment of PlanetScope images for benthic habitat and seagrass species mapping in a complex optically shallow water environment. *International Journal of Remote Sensing*, *39*(17), 5739–5765. <https://doi.org/10.1080/01431161.2018.1506951>
- Wicaksono, P., & Lazuardi, W. (2019). Random forest Classification Scenarios for Benthic Habitat Mapping using Planetscope Image. *International Geoscience and Remote Sensing Symposium (IGARSS)*, *346*, 8245–8248. <https://doi.org/10.1109/IGARSS.2019.8899825>
- Widagti, N., Setiabudi, G. I., Ampou, E. E., & Surana, I. N. (2021). Kondisi Padang Lamun Di Pesisir Bali Utara: Sumberkima, Lovina, Panimbangan, dan Pacung. *Journal of Fisheries and Marine Research*, *5*(2), 452–458.
- Wiratama, I. G. N. M. (2021). Metode Transplantasi Padang Lamun. *Jurnal Ecocentrism*, *1*(1), 9–16. <http://e-journal.unmas.ac.id/index.php/jeco/article/view/1747>
- Xiaoxia, S., Jixian, Z., & Zhengjun, L. (2004). A Comparison of Object-Oriented and Pixel-Based Classification Approaches Using Quickbird Imagery. *Chinese Academy of Surveying and Mapping*, 1–3. <http://citeseerx.ist.psu.edu/viewdoc/summary?doi=10.1.1.184.3501>

- Yanuarsyah, I., & Hudjimartsu, S. A. (2015). Analisis Perubahan Penggunaan Lahan Pertanian Presisi dengan Metode OBIA (Studi Kasus Di Kecamatan Dramaga, Kabupaten Bogor). *Jurnal Krea-TIF*, 3(1), 31–34.
- Yonvitner, Susanto, H. A., & Yuliana, E. (2019). *Pengelolaan Wilayah Pesisir dan Laut* (2nd ed.). Universitas Terbuka. <https://pustaka.ut.ac.id/lib/wp-content/uploads/pdfmk/MMPI510402-M1.pdf>
- Zhang, C. (2015). Applying Data Fusion Techniques for Benthic Habitat Mapping and Monitoring in a Coral Reef Ecosystem. *ISPRS Journal of Photogrammetry and Remote Sensing*, 104, 213–223. <https://doi.org/10.1016/j.isprsjprs.2014.06.005>
- Zoffoli, M. L., Frouin, R., & Kampel, M. (2014). Water Column Correction For Coral Reef Studies by Remote Sensing. In *Sensors* (Vol. 14, Issue 9). <https://doi.org/10.3390/s140916881>
- Zurba, N. (2018). Pengenalan Padang Lamun Suatu Ekosistem yang Terlupakan. In *Unimal Press*. Unimal Press.