

DAFTAR PUSTAKA

- Almeida, D. R. ., Stark, S. C., Chazdon, R., Nelson, B. W., Cesar, R. G., Meli, P., Gorgens, E. B., Duarte, M. M., Valbuena, R., Moreno, V. S., Mendes, A. F., Amazonas, N., Gonçalves, N. B., Silva, C. A., Schietti, J., & Brancalion, P. H. S. (2019). The effectiveness of lidar remote sensing for monitoring forest cover attributes and landscape restoration. *Forest Ecology and Management*, 438(February), 34–43. <https://doi.org/10.1016/j.foreco.2019.02.002>
- Almeida, P. M. M. de., Madureira Cruz, C. B., Amaral, F. G., Almeida Furtado, L. F., dos Santos Duarte, G., da Silva, G. F., Silva de Barros, R., Pereira Abrantes Marques, J. V. F., Cupertino Bastos, R. M., dos Santos Rosario, E., Santos, V. F., Alves, A., de Oliveira Chaves, F., & Gomes Soares, M. L. (2020). Mangrove Typology: A Proposal for Mapping based on High Spatial Resolution Orbital Remote Sensing. *Journal of Coastal Research*, 95(sp1), 1. <https://doi.org/10.2112/SI95-001.1>
- Anshah, S. A., Rosli, S. N., Omar, H., Talib, N., Saad, N. M., & Ghazali, M. D. (2021). Assessment of pleiades satellite image for mangrove family classification. *IOP Conference Series: Earth and Environmental Science*, 620(1). <https://doi.org/10.1088/1755-1315/620/1/012009>
- Arifanti, V. B., Novita, N., Subarno, & Tosiani, A. (2021). Mangrove deforestation and CO2emissions in Indonesia. *IOP Conference Series: Earth and Environmental Science*, 874(1). <https://doi.org/10.1088/1755-1315/874/1/012006>
- Armston, J. D. (2009). Prediction and validation of foliage projective cover from Landsat-5 TM and Landsat-7 ETM+ imagery. *Journal of Applied Remote Sensing*, 3(1), 033540. <https://doi.org/10.1117/1.3216031>
- Armstrong, R. A. (1993). Remote sensing of submerged vegetation canopies for biomass estimation. *International Journal of Remote Sensing*, 14(3), 621–627. <https://doi.org/10.1080/01431169308904363>
- Aslan, A., & Aljahdali, M. O. (2022). Characterizing Global Patterns of Mangrove Canopy Height and Aboveground Biomass Derived from SRTM Data. *Forests*, 13(10). <https://doi.org/10.3390/f13101545>
- Atwood, T. B., Connolly, R. M., Almahasheer, H., Carnell, P. E., Duarte, C. M., Lewis, C. J. E., Irigoien, X., Kelleway, J. J., Lavery, P. S., Macreadie, P. I., Serrano, O., Sanders, C. J., Santos, I., Steven, A. D. L., & Lovelock, C. E. (2017). Global patterns in mangrove soil carbon stocks and losses. *Nature Climate Change*, 7(7), 523–528. <https://doi.org/10.1038/nclimate3326>
- Badan Standarisasi Nasional. (2020). *SNI 7717:2020 Spesifikasi Informasi Geospasial Mangrove*.
- Balke, T., & Friess, D. A. (2016). Geomorphic knowledge for mangrove restoration: A pan-tropical categorization. *Earth Surface Processes and Landforms*, 41(2), 231–239. <https://doi.org/10.1002/esp.3841>
- Baloloy, A. B., Blanco, A. C., Raymund Rhommel, R. R. C., & Nadaoka, K. (2020). Development and application of a new mangrove vegetation index (MVI) for

- rapid and accurate mangrove mapping. *ISPRS Journal of Photogrammetry and Remote Sensing*, 166(January), 95–117. <https://doi.org/10.1016/j.isprsjprs.2020.06.001>
- Blaschke, T. (2015). *Object Based Image Analysis: Evolution, History, State-of-the-Art and Future Vision*. January.
- Bryan-Brown, D. N., Connolly, R. M., Richards, D. R., Adame, F., Friess, D. A., & Brown, C. J. (2020). Global trends in mangrove forest fragmentation. *Scientific Reports*, 10(1), 1–8. <https://doi.org/10.1038/s41598-020-63880-1>
- Cao, J., Leng, W., Liu, K., Liu, L., He, Z., & Zhu, Y. (2018). Object-Based mangrove species classification using unmanned aerial vehicle hyperspectral images and digital surface models. *Remote Sensing*, 10(1). <https://doi.org/10.3390/rs10010089>
- Carugati, L., Gatto, B., Rastelli, E., Lo Martire, M., Coral, C., Greco, S., & Danovaro, R. (2018). Impact of mangrove forests degradation on biodiversity and ecosystem functioning. *Scientific Reports*, 8(1), 1–11. <https://doi.org/10.1038/s41598-018-31683-0>
- Chen, Z., Gao, B., & Devereux, B. (2017). State-of-the-art: DTM generation using airborne LIDAR data. *Sensors (Switzerland)*, 17(1). <https://doi.org/10.3390/s17010150>
- Cohen, M. C. L., Lara, R. J., Szlafsztein, C., & Dittmar, T. (2004). Mangrove inundation and nutrient dynamics from a GIS perspective. *Wetlands Ecology and Management*, 12(2), 81–86. <https://doi.org/10.1023/B:WETL.0000021668.25445.41>
- Congalton, R. G. (2001). Accuracy assessment and validation of remotely sensed and other spatial information. *International Journal of Wildland Fire*, 10(3–4), 321–328. <https://doi.org/10.1071/wf01031>
- Coops, N. C., Tompalski, P., Goodbody, T. R. H., Queinnec, M., Luther, J. E., Bolton, D. K., White, J. C., Wulder, M. A., van Lier, O. R., & Hermosilla, T. (2021). Modelling lidar-derived estimates of forest attributes over space and time: A review of approaches and future trends. *Remote Sensing of Environment*, 260(April), 112477. <https://doi.org/10.1016/j.rse.2021.112477>
- Darmawan, S., Takeuchi, W., Vetrta, Y., Winarso, G., Wikantika, K., & Sari, D. K. (2014). Characterization of mangrove forest types based on ALOS-PALSAR in overall Indonesian archipelago. *IOP Conference Series: Earth and Environmental Science*, 20(1). <https://doi.org/10.1088/1755-1315/20/1/012051>
- Davis, B. A., & Jensen, J. R. (1998). Remote sensing of mangrove biophysical characteristics Remote Sensing of Mangrove Biophysical Characteristics. *Geocarto International*, 13(4 December 1998), 55–64. <https://doi.org/10.1080/10106049809354665>
- Duke, N. C. (1992). *Mangrove floristics and biogeography* (Issue June, pp. 63–100). <https://doi.org/10.1029/CE041p0063>
- Duke, N. C., Ball, M. C., & Ellison, J. C. (1998). Factors influencing biodiversity and distributional gradients in mangroves. *Global Ecology and Biogeography Letters*,

- 7(1), 27–47. <https://doi.org/10.2307/2997695>
- Ehbrecht, M., Seidel, D., Annighöfer, P., Kreft, H., Köhler, M., Zemp, D. C., Puettmann, K., Nilus, R., Babweteera, F., Willim, K., Stiers, M., Soto, D., Boehmer, H. J., Fisichelli, N., Burnett, M., Juday, G., Stephens, S. L., & Ammer, C. (2021). Global patterns and climatic controls of forest structural complexity. *Nature Communications*, 12(1), 1–12. <https://doi.org/10.1038/s41467-020-20767-z>
- Field, C. D. (1999). Rehabilitation of mangrove ecosystems: An overview. *Marine Pollution Bulletin*, 37(8–12), 383–392. [https://doi.org/10.1016/S0025-326X\(99\)00106-X](https://doi.org/10.1016/S0025-326X(99)00106-X)
- Fisher, A., Scarth, P., Armston, J., & Danaher, T. (2018). Agricultural and Forest Meteorology Relating foliage and crown projective cover in Australian tree stands. *Agricultural and Forest Meteorology*, 259(April), 39–47. <https://doi.org/10.1016/j.agrformet.2018.04.016>
- Giri, C., Ochieng, E., Tieszen, L. L., Zhu, Z., Singh, A., Loveland, T., Masek, J., & Duke, N. (2011). Status and distribution of mangrove forests of the world using earth observation satellite data. *Global Ecology and Biogeography*, 20(1), 154–159. <https://doi.org/10.1111/j.1466-8238.2010.00584.x>
- Giri, C., Zhu, Z., Tieszen, L. L., Singh, A., Gillette, S., & Kelmelis, J. A. (2008). Mangrove forest distributions and dynamics (1975–2005) of the tsunami-affected region of Asia. *Journal of Biogeography*, 35(3), 519–528. <https://doi.org/10.1111/j.1365-2699.2007.01806.x>
- Goldberg, L., Lagomasino, D., Thomas, N., & Fatoyinbo, T. (2020). Global declines in human-driven mangrove loss. *Global Change Biology*, 26(10), 5844–5855. <https://doi.org/10.1111/gcb.15275>
- Green, E. P., Mumby, P. J., Edwards, A. J., & Clark, C. D. (1996). A review of remote sensing for the assessment and management of tropical coastal resources. *Coastal Management*, 24(1), 1–40. <https://doi.org/10.1080/08920759609362279>
- Green, Edmund P., Mumby, P. J., Edwards, A. J., & Clark, C. D. (2000). *Remote Sensing Handbook for Tropical Coastal Management*. The United Nations Educational, Scientific and Cultural Organization. <https://unesdoc.unesco.org/ark:/48223/pf0000119752>
- Gupta, K., Mukhopadhyay, A., Giri, S., Chanda, A., Datta Majumdar, S., Samanta, S., Mitra, D., Samal, R. N., Pattnaik, A. K., & Hazra, S. (2018). An index for discrimination of mangroves from non-mangroves using LANDSAT 8 OLI imagery. *MethodsX*, 5(May), 1129–1139. <https://doi.org/10.1016/j.mex.2018.09.011>
- Haralick, R. M., Shanmugam, K., & Dinstein, I. (1973). Textural Features for Image Classification. *IEEE Transactions on Systems, Man, and Cybernetics*, SMC-3(6), 610–621. <https://doi.org/10.1109/TSMC.1973.4309314>
- Hay, G. J., Blaschke, T., Marceau, D. J., & Bouchard, A. (2003). A comparison of three image-object methods for the multiscale analysis of landscape structure. *ISPRS Journal of Photogrammetry and Remote Sensing*, 57(5–6), 327–345.

- [https://doi.org/10.1016/S0924-2716\(02\)00162-4](https://doi.org/10.1016/S0924-2716(02)00162-4)
- Hay, G. J., & Castilla, G. (2008). Geographic object-based image analysis (GEOBIA): A new name for a new discipline. *Lecture Notes in Geoinformation and Cartography*, 0(9783540770572), 75–89. https://doi.org/10.1007/978-3-540-77058-9_4
- Heumann, B. W. (2011a). An object-based classification of mangroves using a hybrid decision tree-support vector machine approach. *Remote Sensing*, 3(11), 2440–2460. <https://doi.org/10.3390/rs3112440>
- Heumann, B. W. (2011b). Satellite remote sensing of mangrove forests: Recent advances and future opportunities. *Progress in Physical Geography*, 35(1), 87–108. <https://doi.org/10.1177/0309133310385371>
- Hidayatullah, Muhamad Faqih, & Kamal, M. (2023). *Mangrove forest identification using object-based approach classification Mangrove Forest Identification Using Object-Based Approach Classification*. 050011(February).
- Hidayatullah, Muhammad Faqih. (2022). *Estimasi Stok Karbon Atas Permukaan Spesies Mangrove Menggunakan Geobia dan Indeks Vegetasi Pada Citra Worldview-2 Di Clungup Mangrove Conservation, Kabupaten Malang*. <http://etd.repository.ugm.ac.id/penelitian/detail/206959>
- Hopkinson, C., & Chasmer, L. (2009). Testing LiDAR models of fractional cover across multiple forest ecozones. *Remote Sensing of Environment*, 113(1), 275–288. <https://doi.org/10.1016/j.rse.2008.09.012>
- Huete, A., Didan, K., Miura, T., Rodriguez, E. ., Gao, X., & Ferreira, L. . (2002). Overview of the radiometric and biophysical performance of the MODIS vegetation indices. *Remote Sensing of Environment*, 83(1–2), 195–213. [https://doi.org/10.1016/S0034-4257\(02\)00096-2](https://doi.org/10.1016/S0034-4257(02)00096-2)
- Hyypä, J., Hyypä, H., Yu, X., Kaartinen, H., Kukko, A., & Holopainen, M. (2008). Forest Inventory Using Small-Footprint Airborne LiDAR. In *Topographic Laser Ranging and Scanning* (Issue January). <https://doi.org/10.1201/9781420051438.ch12>
- Islam, M. M., Rahman, M. S., Kabir, M. A., Islam, M. N., & Chowdhury, R. M. (2020). Predictive assessment on landscape and coastal erosion of Bangladesh using geospatial techniques. *Remote Sensing Applications: Society and Environment*, 17, 100277. <https://doi.org/10.1016/j.rsase.2019.100277>
- Jensen, J. R. (2014). Remote sensing of the environment: an earth resource perspective second edition. In *Pearson Education Limited, Harlow, England* (Vol. 1).
- Juniansah, A., Tama, G. C., Febriani, K. R., Baharain, M. N., Kanekaputra, T., Wulandari, Y. S., & Kamal, M. (2018). Mangrove Leaf Area Index Estimation Using Sentinel 2A Imagery in Teluk Ratai, Pesawaran Lampung. *IOP Conference Series: Earth and Environmental Science*, 165(1). <https://doi.org/10.1088/1755-1315/165/1/012004>
- Kamal, M., & Johansen, K. (2017). *Explicit area-based accuracy assessment for mangrove tree crown delineation using Geographic Object-Based Image Analysis (GEOBIA)*. 17. <https://doi.org/10.1117/12.2278179>

- Kamal, M., Phinn, S., & Johansen, K. (2015a). Geographic object based image analysis (GEOBIA) for mangrove tree crown delineation using WorldView-2 image data. *ACRS 2015 - 36th Asian Conference on Remote Sensing: Fostering Resilient Growth in Asia, Proceedings, December*.
- Kamal, M., Phinn, S., & Johansen, K. (2015b). Object-based approach for multi-scale mangrove composition mapping using multi-resolution image datasets. In *Remote Sensing* (Vol. 7, Issue 4). <https://doi.org/10.3390/rs70404753>
- Kamal, M., Phinn, S., & Johansen, K. (2016). Assessment of multi-resolution image data for mangrove leaf area index mapping. *Remote Sensing of Environment*, 176, 242–254. <https://doi.org/10.1016/j.rse.2016.02.013>
- Kamal, M., Sidik, F., Prananda, A. R. A., & Mahardhika, S. A. (2021). Mapping Leaf Area Index of restored mangroves using WorldView-2 imagery in Perancak Estuary, Bali, Indonesia. *Remote Sensing Applications: Society and Environment*, 23(November 2020), 100567. <https://doi.org/10.1016/j.rsase.2021.100567>
- Kementerian Lingkungan Hidup dan Kehutanan. (2021). *Peta Mangrove Nasional*.
- Khosravipour, A., Skidmore, A. K., Isenburg, M., Wang, T., & Hussin, Y. A. (2014). Generating pit-free canopy height models from airborne lidar. *Photogrammetric Engineering and Remote Sensing*, 80(9), 863–872. <https://doi.org/10.14358/PERS.80.9.863>
- Kodikara, K. A. S., Jayatissa, L. P., Huxham, M., Dahdouh-Guebas, F., & Koedam, N. (2018). The effects of salinity on growth and survival of mangrove seedlings changes with age. *Acta Botanica Brasilica*, 32(1), 37–46. <https://doi.org/10.1590/0102-33062017abb0100>
- Kuenzer, C., Bluemel, A., Gebhardt, S., Quoc, T. V., & Dech, S. (2011). Remote sensing of mangrove ecosystems: A review. In *Remote Sensing* (Vol. 3, Issue 5). <https://doi.org/10.3390/rs3050878>
- Kumar, S., & Chong, I. (2018). Correlation analysis to identify the effective data in machine learning: Prediction of depressive disorder and emotion states. *International Journal of Environmental Research and Public Health*, 15(12). <https://doi.org/10.3390/ijerph15122907>
- Li, Q., Wong, F. K. K., & Fung, T. (2021). Mapping multi-layered mangroves from multispectral, hyperspectral, and LiDAR data. *Remote Sensing of Environment*, 258(September 2020), 112403. <https://doi.org/10.1016/j.rse.2021.112403>
- Liu, M., Zhang, H., Lin, G., Lin, H., & Tang, D. (2018). Zonation and directional dynamics of mangrove forests derived from time-series satellite imagery in Mai Po, Hong Kong. *Sustainability (Switzerland)*, 10(6), 3–5. <https://doi.org/10.3390/su10061913>
- Lohani, B., & Ghosh, S. (2017). Airborne LiDAR Technology: A Review of Data Collection and Processing Systems. *Proceedings of the National Academy of Sciences India Section A - Physical Sciences*, 87(4), 567–579. <https://doi.org/10.1007/s40010-017-0435-9>
- Lucas, R., Lule, A. V., Rodríguez, M. T., Kamal, M., Thomas, N., Asbridge, E., & Kuenzer, C. (2017). *Spatial Ecology of Mangrove Forests : A Remote Sensing*

- Perspective*. 87–112.
- Ma, L., Li, M., Ma, X., Cheng, L., Du, P., & Liu, Y. (2017). ISPRS Journal of Photogrammetry and Remote Sensing A review of supervised object-based land-cover image classification. *ISPRS Journal of Photogrammetry and Remote Sensing*, 130, 277–293. <https://doi.org/10.1016/j.isprsjprs.2017.06.001>
- Mahiny, A. S., & Turner, B. J. (2007). A comparison of four common atmospheric correction methods. *Photogrammetric Engineering and Remote Sensing*, 73(4), 361–368. <https://doi.org/10.14358/PERS.73.4.361>
- Maurya, K., Mahajan, S., & Chaube, N. (2021). Remote sensing techniques: mapping and monitoring of mangrove ecosystem—a review. *Complex & Intelligent Systems*, 7(6), 2797–2818. <https://doi.org/10.1007/s40747-021-00457-z>
- McElhinny, C., Gibbons, P., Brack, C., & Bauhus, J. (2005). Forest and woodland stand structural complexity: Its definition and measurement. *Forest Ecology and Management*, 218(1–3), 1–24. <https://doi.org/10.1016/j.foreco.2005.08.034>
- Morgan, J. L., Gergel, S. E., & Coops, N. C. (2010). Aerial photography: A rapidly evolving tool for ecological management. *BioScience*, 60(1), 47–59. <https://doi.org/10.1525/bio.2010.60.1.9>
- Mu, X., Hu, M., Song, W., Ruan, G., Ge, Y., Wang, J., Huang, S., & Yan, G. (2015). Evaluation of sampling methods for validation of remotely sensed fractional vegetation cover. *Remote Sensing*, 7(12), 16164–16182. <https://doi.org/10.3390/rs71215817>
- Oliveira, T. S., Santana, K. V. A., Santos, H. V. S., Filho, R. N. de A., & Holanda, F. S. R. (2019). Floristic and structural characterization of the mangrove forests in the estuary of the São Francisco river. *Floresta*, 49(2), 163–170. <https://doi.org/10.5380/rf.v49i2.51884>
- Pahlevi, A. M., Sofian, I., Pangastuti, D., & Wijanarto, A. B. (2019). Updating Model Geoid Indonesia. *Seminar Nasional Geomatika*, 3, 761. <https://doi.org/10.24895/sng.2018.3-0.1063>
- Perko, R., Raggam, H., & Roth, P. M. (2019). Mapping with Pléiades-end-to-end workflow. *Remote Sensing*, 11(17), 1–52. <https://doi.org/10.3390/rs11172052>
- Pham, T. D., Yokoya, N., Bui, D. T., Yoshino, K., & Friess, D. A. (2019). Remote sensing approaches for monitoring mangrove species, structure, and biomass: Opportunities and challenges. *Remote Sensing*, 11(3), 1–24. <https://doi.org/10.3390/rs11030230>
- Poorazimy, M., Ronoud, G., Yu, X., Luoma, V., Hyypä, J., Saarinen, N., Kankare, V., & Vastaranta, M. (2022). Feasibility of Bi-Temporal Airborne Laser Scanning Data in Detecting Species-Specific Individual Tree Crown Growth of Boreal Forests. *Remote Sensing*, 14(19). <https://doi.org/10.3390/rs14194845>
- Popescu, S. C., & Wynne, R. H. (2004). Seeing the trees in the forest: Using lidar and multispectral data fusion with local filtering and variable window size for estimating tree height. *Photogrammetric Engineering and Remote Sensing*, 70(5), 589–604. <https://doi.org/10.14358/PERS.70.5.589>
- Purnamasari, E., Kamal, M., & Wicaksono, P. (2021). Comparison of vegetation

- indices for estimating above-ground mangrove carbon stocks using PlanetScope image. *Regional Studies in Marine Science*, 44, 101730. <https://doi.org/10.1016/j.rsma.2021.101730>
- Purnamasayangasukasih, P. R., Norizah, K., Ismail, A. A. M., & Shamsudin, I. (2016). A review of uses of satellite imagery in monitoring mangrove forests. *IOP Conference Series: Earth and Environmental Science*, 37(1). <https://doi.org/10.1088/1755-1315/37/1/012034>
- Quang, N. H., Quinn, C. H., Stringer, L. C., Carrie, R., Hackney, C. R., Van Hue, L. T., Tan, D. Van, & Thanh Nga, P. T. (2020). Multi-decadal changes in mangrove extent, age and species in the Red River Estuaries of Viet Nam. *Remote Sensing*, 12(14). <https://doi.org/10.3390/rs12142289>
- Radoux, J., & Bogaert, P. (2017). *Good Practices for Object-Based Accuracy Assessment*. <https://doi.org/10.3390/rs9070646>
- Rahim, S., & Baderan, D. (2017). *Hutan Mangrove dan Pemanfaatannya*. Yogyakarta: CV Budi Utama.
- Rivera-Monroy, V. H., Kristensen, E., Lee, S. Y., & Twilley, R. R. (2017). Mangrove ecosystems: A global biogeographic perspective: Structure, function, and services. *Mangrove Ecosystems: A Global Biogeographic Perspective: Structure, Function, and Services*, November, 1–399. <https://doi.org/10.1007/978-3-319-62206-4>
- Roslani, M. A., Mustapha, M. A., Lihan, T., & Wan Juliana, W. A. (2013). Classification of mangroves vegetation species using texture analysis on RapidEye satellite imagery. *AIP Conference Proceedings*, 1571, 480–486. <https://doi.org/10.1063/1.4858701>
- Rouse, J. W., Haas, R. H., Schell, J. A., & Deering, D. W. (1974). Monitoring vegetation systems in the Great Plains with ERTS. *Third Earth Resources Technology Satellite-1 Symposium*, 1, 309–317. <https://doi.org/10.1021/jf60203a024>
- Saenger, P. (2002). Mangrove Ecology, Silviculture and Conservation. In *Mangrove Ecology, Silviculture and Conservation*. <https://doi.org/10.1007/978-94-015-9962-7>
- Saikh, A., Arifin, A. Z., & Fatichah, C. (2019). Correlation and symmetrical uncertainty-based feature selection for multivariate time series classification. *International Journal of Intelligent Engineering and Systems*, 12(3), 129–137. <https://doi.org/10.22266/IJIES2019.0630.14>
- Scarth, P., Armston, J., Lucas, R., & Bunting, P. (2019). A structural classification of Australian vegetation using ICESat/GLAS, ALOS PALSAR, and Landsat sensor data. *Remote Sensing*, 11(2). <https://doi.org/10.3390/rs11020147>
- Sealey, K. S., & Logan, A. (2018). The commonwealth of the bahamas. In *World Seas: An Environmental Evaluation Volume I: Europe, the Americas and West Africa* (Second Edi). Elsevier Ltd. <https://doi.org/10.1016/B978-0-12-805068-2.00030-9>
- Silver, M., Tiwari, A., & Karnieli, A. (2019). Identifying vegetation in arid regions

- using object-based image analysis with RGB-only aerial imagery. *Remote Sensing*, 11(19). <https://doi.org/10.3390/rs11192308>
- Sopiani Tumangger, B. (2019). Identifikasi dan Karakteristik Jenis Akar Mangrove Berdasarkan Kondisi Tanah dan Salinitas Air Laut di Kuala Langsa Identification and Characteristic Types of Mangrove Roots Based on Sea and Salinity Conditions in Kuala Langsa. *Jurnal Biologica Samudra*, 1(1), 9–016.
- Spalding, M., Blasco, F., & Field, C. (1997). *World Mangrove Atlas*. <https://archive.org/details/worldmangroveatl97spal>
- Spalding, M., McIvor, A., Tonneijck, F., Tol, S., & Eijk, P. van. (2014). Mangroves for coastal defence. *Wetlands International and The Nature Conservancy*, 42.
- Srivastava, J., Farooqui, A., & Seth, P. (2019). Pollen-vegetation relationship in surface sediments, Coringa mangrove ecosystem, India: palaeoecological applications. *Palynology*, 43(3), 451–466. <https://doi.org/10.1080/01916122.2018.1458755>
- Story, M., & Congalton, R. G. (1986). Remote Sensing Brief Accuracy Assessment: A User's Perspective. *Photogrammetric Engineering and Remote Sensing*, 52(3), 397–399. https://www.asprs.org/wp-content/uploads/pers/1986journal/mar/1986_mar_397-399.pdf
- Suzuki, K., & Saenger, P. (1996). A phytosociological study of mangrove vegetation in Australia with a latitudinal comparison of East Asia. *Mangrove Science*, 1(May), 9–27.
- The National Centre for Space Studies. (2012). *Pléiades Imagery User Guide*.
- Tomlinson, P. B. (1986). Ecology. In *The Botany of Mangroves* (pp. 11–28). Cambridge University Press. <https://doi.org/10.1017/CBO9781139946575.003>
- Toutin, T. (2004). Geometric processing of remote sensing images: Models, algorithms and methods. *International Journal of Remote Sensing*, 25(10), 1893–1924. <https://doi.org/10.1080/0143116031000101611>
- Toutin, Th, & Schauer, P. (2006). 3D physical versus empirical models for HR sensor orientation and elevation extraction: Examples with ikonos and quickbird. *Revue Francaise de Photogrammetrie et de Teledetection*, 184, 115–120.
- Tran, T. V., Reef, R., & Zhu, X. (2022). A Review of Spectral Indices for Mangrove Remote Sensing. *Remote Sensing*, 14(19), 4868. <https://doi.org/10.3390/rs14194868>
- Veljanovski, T., Kanjir, U., & Oštir, K. (2011). Object-based image analysis of remote sensing data. *Geodetski Vestnik*, 55(04), 641–664. <https://doi.org/10.15292/geodetski-vestnik.2011.04.641-664>
- Wang, L., Jia, M., Yin, D., & Tian, J. (2019). A review of remote sensing for mangrove forests: 1956–2018. *Remote Sensing of Environment*, 231(May). <https://doi.org/10.1016/j.rse.2019.111223>
- Wang, L., Sousa, W. P., Gong, P., & Biging, G. S. (2004). Comparison of IKONOS and QuickBird images for mapping mangrove species on the Caribbean coast of Panama. *Remote Sensing of Environment*, 91(3–4), 432–440. <https://doi.org/10.1016/j.rse.2004.04.005>
- Watanakij, N., & Vaiphasa, C. (2016). Improving the accuracy of mangrove species

- discrimination using object based and high spatial resolution imagery: A case study in Pak Phanang, Thailand. In *International Journal of Geoinformatics* (Vol. 12, Issue 3, pp. 41–49).
- Wood, E. M., Pidgeon, A. M., Radeloff, V. C., & Keuler, N. S. (2012). Image texture as a remotely sensed measure of vegetation structure. *Remote Sensing of Environment*, 121, 516–526. <https://doi.org/10.1016/j.rse.2012.01.003>
- Woodroffe, C. (2005). *and Geomorphology*. 41, 2005.
- Worthington, T. A., zu Ermgassen, P. S. E., Friess, D. A., Krauss, K. W., Lovelock, C. E., Thorley, J., Tingey, R., Woodroffe, C. D., Bunting, P., Cormier, N., Lagomasino, D., Lucas, R., Murray, N. J., Sutherland, W. J., & Spalding, M. (2020). A global biophysical typology of mangroves and its relevance for ecosystem structure and deforestation. *Scientific Reports*, 10(1), 1–11. <https://doi.org/10.1038/s41598-020-71194-5>
- Xie, Y., Sha, Z., & Yu, M. (2008). Remote sensing imagery in vegetation mapping: a review. *Journal of Plant Ecology*, 1(1), 9–23. <https://doi.org/10.1093/jpe/rtm005>
- Yu, L., & Liu, H. (2003). Feature Selection for High-Dimensional Data: A Fast Correlation-Based Filter Solution. *Proceedings, Twentieth International Conference on Machine Learning*, 2, 856–863.
- Zhan, Q., Molenaar, M., Tempfli, K., & Shi, W. (2005). Quality assessment for geo-spatial objects derived from remotely sensed data. *International Journal of Remote Sensing*, 26(14), 2953–2974. <https://doi.org/10.1080/01431160500057764>
- Zhang, L., Member, S., Sun, X., Wu, T., & Zhang, H. (2015). *An Analysis of Shadow Effects on Spectral Vegetation Indexes Using a Ground-Based Imaging Spectrometer*. December. <https://doi.org/10.1109/LGRS.2015.2450218>
- Zhao, J., Cao, Y., Yu, L., Liu, X., Yang, R., & Gong, P. (2022). Future global conflict risk hotspots between biodiversity conservation and food security: 10 countries and 7 Biodiversity Hotspots. *Global Ecology and Conservation*, 34(January). <https://doi.org/10.1016/j.gecco.2022.e02036>