

## DAFTAR PUSTAKA

- Açıksari, E., Akçay, Ö., & Avşar, E. Ö. (2018). *Sentinel-1 Polsar Ve Sentinel-2 Optik Uydu Görüntülerinin Füzyon Ile Sınıflandırılması*. 18–21.  
<https://doi.org/10.15659/uzalcbs2018.6668>
- Adiwidjaya, D., & Supito. (2010). *Konsep Budidaya Tambak Berkelanjutan*. DJPB Kementerian Kelautan dan Perikanan.  
<https://kkp.go.id/djpb/bbpapjepara/artikel/10624-konsep-budidaya-tambak-berkelanjutan>
- Afroz, T., & Alam, S. (2013). Sustainable shrimp farming in Bangladesh: A quest for an Integrated Coastal Zone Management. *Ocean and Coastal Management*, 71, 275–283. <https://doi.org/10.1016/j.ocecoaman.2012.10.006>
- Al Sayah, M. J., Nedjai, R., Abdallah, C., & Khouri, M. (2020). On the use of remote sensing to map the proliferation of aquaculture ponds and to investigate their effect on local climate, perspectives from the Claise watershed, France. *Environmental Monitoring and Assessment*, 192(5).  
<https://doi.org/10.1007/s10661-020-08250-0>
- Alexandridis, T. K., Topaloglou, C. A., Lazaridou, E., & Zalidis, G. C. (2008). The performance of satellite images in mapping aquacultures. *Ocean and Coastal Management*, 51(8–9), 638–644.  
<https://doi.org/10.1016/j.ocecoaman.2008.06.002>
- Ambarwulan, W. (2010). Remote Sensing of Tropical Coastal Waters: Study of the Berau Estuary, East Kalimantan, Indonesia [University of Twente]. In *University of Twente* (Nomor September).  
[https://webapps.itc.utwente.nl/librarywww/papers\\_2010/phd/wiwin.pdf](https://webapps.itc.utwente.nl/librarywww/papers_2010/phd/wiwin.pdf)
- Andriyanto, S. (2013). Kondisi Terkini Budidaya Ikan Bandeng Di Kabupaten Pati, Jawa Tengah. *Media Akuakultur*, 8(2), 139.  
<https://doi.org/10.15578/ma.8.2.2013.139-144>
- Anugrianti, Mustafa, A., & Syamsuddin, R. (2013). *Distribusi Spasial Karakteristik Kimia Tanah Tambak di Kabupaten Demak, Provinsi Jawa Tengah*. 14.
- 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/u-jht.v2i2.1363>
- Awasthi, S. (2020). *Random Forests in Machine Learning : A Detailed Explanation*. Datamahdev. <https://datamahdev.com/random-forests-in-machine-learning-a-detailed-explanation>
- Azahra, M. F., Herzegovina, R., & Rosyadi, A. (2019). *Pemetaan Tambak pada Citra Sentinel 2A Menggunakan Metode GEOBIA di Wilayah Pasir Sakti*,

*Lampung Timur Pond Mapping in Sentinel 2A using GEOBIA Methods in Pasir Sakti.* 455–461.

- Bai, Y., Sun, G., Li, Y., Ma, P., Li, G., & Zhang, Y. (2021). Comprehensively analyzing optical and polarimetric SAR features for land-use/land-cover classification and urban vegetation extraction in highly-dense urban area. *International Journal of Applied Earth Observation and Geoinformation*, 103(July), 102496. <https://doi.org/10.1016/j.jag.2021.102496>
- Biggs, J., Williams, P., Whitfield, M., Nicolet, P., & Weatherby, A. (2005). 15 Years of pond assessment in Britain: Results and lessons learned from the work of Pond Conservation. *Aquatic Conservation: Marine and Freshwater Ecosystems*, 15(6), 693–714. <https://doi.org/10.1002/aqc.745>
- Bioresita, F., Puissant, A., Stumpf, A., & Malet, J. P. (2018). A method for automatic and rapid mapping of water surfaces from Sentinel-1 imagery. *Remote Sensing*, 10(2). <https://doi.org/10.3390/rs10020217>
- Bioresita, F., Puissant, A., Stumpf, A., & Malet, J. P. (2019). Fusion of Sentinel-1 and Sentinel-2 image time series for permanent and temporary surface water mapping. *International Journal of Remote Sensing*, 40(23), 9026–9049. <https://doi.org/10.1080/01431161.2019.1624869>
- BPS Demak. (2021). *Demak Dalam Angka 2021*.
- BPS Pati. (2015). *Indikator Pertanian Kabupaten Pati*. BPS Kabupaten Pati. <https://patikab.bps.go.id/publication/2016/11/01/a2ffa19582186e0bf5699069/indikator-pertanian-kabupaten-pati-2015.html>
- BPS Pati. (2016). *Kabupaten Pati Dalam Angka*.
- Braese, J., De Vries Robbe, S. A., & Rentschler, J. (2020). Coastal Development between Opportunity and Disaster Risk: A Multisectoral Risk Assessment for Vietnam. In *Vietnam's Coastal Development between Opportunity and Disaster Risk* (Nomor August). <https://doi.org/10.1596/1813-9450-9352>
- Breiman, L. (2001). Random forests. *Random Forests*, 45, 5–32. <https://doi.org/10.1023/A:1010933404324>
- Budihastuti, R. (2013). *Model dan Strategi Optimasi Pengelolaan Tambak Wanamina Berwawasan Lingkungan di Pesisir Semarang*. 31, 13–43. <http://eprints.undip.ac.id/40474/>
- Burford, M. A., Costanzo, S. D., Dennison, W. C., Jackson, C. J., Jones, A. B., McKinnon, A. D., Preston, N. P., & Trott, L. A. (2003). A synthesis of dominant ecological processes in intensive shrimp ponds and adjacent coastal environments in NE Australia. *Marine Pollution Bulletin*, 46(11), 1456–1469. [https://doi.org/10.1016/S0025-326X\(03\)00282-0](https://doi.org/10.1016/S0025-326X(03)00282-0)
- Carr, J. R. (1996). Spectral and textural classification of single and multiple band digital images. *Computers and Geosciences*, 22(8), 849–865.

[https://doi.org/10.1016/S0098-3004\(96\)00025-8](https://doi.org/10.1016/S0098-3004(96)00025-8)

- Chen, S., Useya, J., & Mugiyo, H. (2020). Decision-level fusion of Sentinel-1 SAR and Landsat 8 OLI texture features for crop discrimination and classification: case of Masvingo, Zimbabwe. *Heliyon*, 6(11), e05358. <https://doi.org/10.1016/j.heliyon.2020.e05358>
- Chen, W., Lin, Y., & Tseng, K. (2018). *Monitoring Temporal Variation of Ecological Ponds in Taiwan by Using Sentinel Images*. 20, 11976. <https://ui.adsabs.harvard.edu/#abs/2018EGUGA..2011976C/abstract>
- Clerici, N., Valbuena Calderón, C. A., & Posada, J. M. (2017). Fusion of sentinel-1a and sentinel-2A data for land cover mapping: A case study in the lower Magdalena region, Colombia. *Journal of Maps*, 13(2), 718–726. <https://doi.org/10.1080/17445647.2017.1372316>
- Corcoran, J. M., Knight, J. F., & Gallant, A. L. (2013). Influence of multi-source and multi-temporal remotely sensed and ancillary data on the accuracy of random forest classification of wetlands in northern Minnesota. *Remote Sensing*, 5(7), 3212–3238. <https://doi.org/10.3390/rs5073212>
- Cracknell, A. P., & Hayes, L. (2017). Introduction to Remote Sensing. In *Journal of Chemical Information and Modeling* (Second Edi, Vol. 53, Nomor 9). CRC Press.
- Damayanti, H. O. (2014). Komoditas Perikanan Unggulan Kabupaten Pati dalam Skala Provinsi Jawa Tengah. *Jurnal Litbang*, X(1), 24–34. <https://doi.org/10.33658/jl.v10i1.74>
- Danoedoro, P., & Utara, S. (2015). *Penguji Terhadap Tingkat Akurasi Klasifikasi Citra Digital*. 1–11. [https://www.researchgate.net/publication/302581258\\_PENGARUH\\_JUMLAH\\_DAN\\_METODE\\_PENGAMBILAN\\_TITIK\\_SAMPEL\\_PENGUJI\\_TERHADAP\\_TINGKAT\\_AKURASI\\_KLASIFIKASI\\_CITRA\\_DIGITAL\\_PENGINDERAAN\\_JAUH](https://www.researchgate.net/publication/302581258_PENGARUH_JUMLAH_DAN_METODE_PENGAMBILAN_TITIK_SAMPEL_PENGUJI_TERHADAP_TINGKAT_AKURASI_KLASIFIKASI_CITRA_DIGITAL_PENGINDERAAN_JAUH)
- Desmawan, B. T., & Sukamdi. (2012). Adaptasi Masyarakat Kawasan Pesisir Terhadap Banjir Rob Di Kecamatan Sayung, Kabupaten Demak, Jawa Tengah. *Jurnal Bumi Indonesia*, 1(1), 1–9. <http://lib.geo.ugm.ac.id/ojs/index.php/jbi/article/view/38/38>
- Dewalt, B. R., Vergne, P., & Hardin, M. (1996). Shrimp aquaculture development and the environment: People, mangroves and fisheries on the Gulf of Fonseca, Honduras. *World Development*, 24(7), 1193–1208. [https://doi.org/10.1016/0305-750X\(96\)00033-2](https://doi.org/10.1016/0305-750X(96)00033-2)
- Dietterich, T. G. (2000). An Experimental Comparison of Three Methods for Constructing Ensembles of Decision Trees: Bagging,. *Machine Learning*, 40, 139–157. <https://link.springer.com/content/pdf/10.1023%2FA%3A1007607513941.pdf>

- Duan, Y., Li, X., Zhang, L., Chen, D., Liu, S., & Ji, H. (2020). Mapping national-scale aquaculture ponds based on the Google Earth Engine in the Chinese coastal zone. *Aquaculture*, 520(November 2019), 734666. <https://doi.org/10.1016/j.aquaculture.2019.734666>
- European Space Agency. (2013). *Sentinel-1: Instrument Payload*. <https://sentinel.esa.int/>
- Fajrin, Adha, M. Y., & Armi, I. (2019). Pemanfaatan Citra Sentinel-1 SAR Untuk Deteksi Banjir Studi Kasus Pangkalan Koto Baru Sumatera Barat. *Seminar Nasional SPI-4, Oktober*, 9–14. <https://doi.org/10.21063/SPI4.2019.u>
- FAO. (2016). *The State of World Fisheries and Aquaculture 2016 - Contributing to Food Security and Nutrition for All*. Food and Agriculture Organization of the United Nations. <http://www.fao.org/3/I5555E/i5555e.pdf>
- Fathoni, M. N., Chulafak, G. A., & Kushardono, D. (2017a). Kajian Awal Pemanfaatan Data Radar Sentinel-1 untuk Pemetaan Lahan Baku Sawah di Kabupaten Indramayu Jawa Barat. *Seminar Nasional Penginderaan jauh ke-4, Oktober*, 179–186. [https://www.researchgate.net/publication/324248877\\_Kajian\\_Awal\\_Pemanfaatan\\_Data\\_Radar\\_Sentinel-1\\_untuk\\_Pemetaan\\_Lahan\\_Baku\\_Sawah\\_di\\_Kabupaten\\_Indramayu\\_Jawa\\_Barat](https://www.researchgate.net/publication/324248877_Kajian_Awal_Pemanfaatan_Data_Radar_Sentinel-1_untuk_Pemetaan_Lahan_Baku_Sawah_di_Kabupaten_Indramayu_Jawa_Barat)
- Fathoni, M. N., Chulafak, G. A., & Kushardono, D. (2017b). Kajian Awal Pemanfaatan Data Radar Sentinel-1 untuk Pemetaan Lahan Baku Sawah di Kabupaten Indramayu Jawa Barat. *Seminar Nasional Penginderaan jauh ke-4, Oktober*, 179–186.
- Fawzi, N. I., & Iswari, M. Y. (2018). Penginderaan Jauh Untuk Kajian Pesisir. *Oseana*, 43(2), 66–77. <https://doi.org/10.14203/oseana.2018.vol.43no.2.22>
- Foseca, L., Namikawa, L., Castejon, E., Carvalho, L., Pinho, C., & Pagamisse, A. (2011). Image Fusion Techniques for Remote Sensing Applications. In D. Y. Zheng (Ed.), *Image Fusion and Its Applications* (hal. 27). InTech. <http://www.intechopen.com/books/image-fusion-and-its-applications/image-fusion-for-remote-sensing-applications%0AInTech>
- Fu, Y., Deng, J., Ye, Z., Gan, M., Wang, K., Wu, J., Yang, W., & Xiao, G. (2019). Coastal aquaculture mapping from very high spatial resolution imagery by combining object-based neighbor features. *Sustainability (Switzerland)*, 11(3). <https://doi.org/10.3390/su11030637>
- Ghassemian, H. (2016). A review of remote sensing image fusion methods. *Information Fusion*, 32, 75–89. <https://doi.org/10.1016/j.inffus.2016.03.003>
- Ghose, K. M., Pradhan, R., & Sushan, S. (2010). Decision Tree Classification of Remotely Sensed Satellite Data using Spectral Separability Matrix. *International Journal of Advanced Computer Science and Applications*, 1(5),

93–101. <https://doi.org/10.14569/ijacsa.2010.010516>

- Gislason, P. O., Benediktsson, J. A., & Sveinsson, J. R. (2006). Random forests for land cover classification. *Pattern Recognition Letters*, 27(4), 294–300. <https://doi.org/10.1016/j.patrec.2005.08.011>
- Goel, R., & Singh, S. (2015). Skin Cancer Detection using GLCM Matrix Analysis and Back Propagation Neural Network Classifier. *International Journal of Computer Applications*, 112(9), 975–8887. <https://pdfs.semanticscholar.org/fbf8/df41b1981f2bf8b6932a0c2af28a45734374.pdf>
- Gond V., E. Bartholomé, F. Ouattara, A. Nonguierma, & Bado, L. (2000). Mapping and monitoring small ponds in dryland with VEGETATION instrument-----application to West Africa. *Proceeding of the VEGETATION*, April, 327–333.
- Grover, A., Kumar, S., & Kumar, A. (2018). Ship detection using sentinel-1 SAR data. *ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences*, 4(5), 317–324. <https://doi.org/10.5194/isprs-annals-IV-5-317-2018>
- Gusmawati, N. F., Andayani, A., & Mu'awanah, U. (2016). Pemanfaatan Data Penginderaan Jauh Resolusi Tinggi Untuk Pemetaan Tambak Di Kecamatan Ujung Pangkah, Gresik. *Jurnal Kelautan Nasional*, 11(1), 35. <https://doi.org/10.15578/jkn.v11i1.6065>
- Gusmawati, N. F., Zhi, C., Soulard, B., Lemonnier, H., & Selmaoui-Folcher, N. (2016). Aquaculture pond precise mapping in Perancak Estuary, Bali, Indonesia. *Journal of Coastal Research*, 1(75), 637–641. <https://doi.org/10.2112/SI75-128.1>
- Haack, B., & Bechdol, M. (2000). Integrating multisensor data and RADAR texture measures for land cover mapping. *Computers and Geosciences*, 26(4), 411–421. [https://doi.org/10.1016/S0098-3004\(99\)00121-1](https://doi.org/10.1016/S0098-3004(99)00121-1)
- Hall-Beyer, M. (2017). GLCM Texture: A Tutorial v. 3.0. *Arts Research & Publications*, 2017–03, 75. <https://prism.ucalgary.ca/handle/1880/51900%0Ahttp://hdl.handle.net/1880/51900>
- Haralick, R. M., Shanmugam, K., & Dinstein, I. (1973). Textural Features for Image Classification. *SEG Technical Program Expanded Abstracts*, 3(6), 610–621. <https://doi.org/10.1190/segam2015-5927230.1>
- Hardy, A., Ettritch, G., Cross, D. E., Bunting, P., Liywalii, F., Sakala, J., Silumesii, A., Singini, D., Smith, M., Willis, T., & Thomas, C. J. (2019). Automatic detection of open and vegetated water bodies using Sentinel 1 to map African malaria vector mosquito breeding habitats. *Remote Sensing*, 11(5). <https://doi.org/10.3390/rs11050593>



- Haris, N. A., Kusuma, S. S., Arjasakusuma, S., & Wicaksono, P. (2021). Comparison of Sentinel-2 and Multitemporal Sentinel-1 SAR Imagery for Mapping Aquaculture Pond Distribution in the Coastal Region of Brebes Regency, Central Java, Indonesia. *Geographia Technica*, 16(Special Issue), 128–137. [https://doi.org/10.21163/GT\\_2021.163.10](https://doi.org/10.21163/GT_2021.163.10)
- Hartuti, M., Arief, M., Prayogo, T., Marpaung, S., Emiyati, Anggraini, N., Manoppo, A. K. S., Hamzah, R., Purwanto, A. D., Putranto, H. E., & Godoras, T. (2015). *Litbang Pemanfaatan Data Radar Untuk Pesisir Dan Laut*. 15–16. [http://pusfatja.lapan.go.id/files/uploads\\_ebook/publikasi/Buku\\_Laporan\\_2015/003\\_Buku\\_Radar\\_2015\\_final.pdf](http://pusfatja.lapan.go.id/files/uploads_ebook/publikasi/Buku_Laporan_2015/003_Buku_Radar_2015_final.pdf)
- Herizal. (2020). *Penjelasan BMKG Soal Penyebab Banjir Rob di Wilayah Pesisir Pantai Utara*. TribunJogja. <https://jogja.tribunnews.com/2020/06/04/penjelasan-bmkg-soal-penyebab-banjir-rob-di-wilayah-pesisir-pantai-utara?>
- Herold, N. D., Haack, B. N., & Solomon, E. (2004). An evaluation of radar texture for land use/cover extraction in varied landscapes. *International Journal of Applied Earth Observation and Geoinformation*, 5(2), 113–128. <https://doi.org/10.1016/j.jag.2004.01.005>
- Ho, T. K. (1998). The Random Subspace Method for Constructing Decision Forests. *IEEE TRANSACTIONS ON PATTERN ANALYSIS AND MACHINE INTELLIGENCE*, 20(8), 832–844. <https://doi.org/10.1109/34.709601>
- Imaduddina, A., & Widodo, W. (2017). Pemodelan Bahaya Bencana Banjir Rob Di Kawasan Pesisir Kota Surabaya. *Spectra*, XV(30), 45–56.
- Jatmiko, R. H. (2021). *Active and Passive Microwave Remote Sensing*.
- Jayanthi, M., Thirumurthy, S., Nagaraj, G., Muralidhar, M., & Ravichandran, P. (2018). Spatial and temporal changes in mangrove cover across the protected and unprotected forests of India. *Estuarine, Coastal and Shelf Science*, 213(July), 81–91. <https://doi.org/10.1016/j.ecss.2018.08.016>
- JDIH. (2020). *Peraturan Daerah Kabupaten Demak Nomor 1 Tahun 2020*. Jaringan Dokumentasi dan Informasi Hukum Nasional. <https://jdih.demakkab.go.id/prokum/perda-no-1-tahun-2020.pdf>
- Ji, L., Zhang, L., & Wylie, B. (2009). *Analysis of Dynamic Thresholds for the Normalized Difference Water Index*. 75(11), 1307–1317.
- Ji, Z. (2009). *Multi-data Image Fusion for Mapping the Wetland Vegetation in Poyang Lake, China* [International Institute for Geo-information Science and Earth Observation (The Netherlands) and the School of Resource and Environment Science (SRES) of Wuhan University (China)]. [https://www.itc.nl/library/papers\\_2009/msc/nrm/zhuoya.pdf](https://www.itc.nl/library/papers_2009/msc/nrm/zhuoya.pdf)

- Jia, K., Jiang, W., Li, J., & Tang, Z. (2018). Spectral matching based on discrete particle swarm optimization: A new method for terrestrial water body extraction using multi-temporal Landsat 8 images. *Remote Sensing of Environment*, 209(April 2017), 1–18.  
<https://doi.org/10.1016/j.rse.2018.02.012>
- Jia, S., Xue, D., Li, C., Zheng, J., & Li, W. (2019). Study on New Method for Water Area Information Extraction Based on Sentinel-1 Data. *Yangtze River*, 50(5).
- Joffre, O. M., Poortvliet, P. M., & Klerkx, L. (2019). To cluster or not to cluster farmers? Influences on network interactions, risk perceptions, and adoption of aquaculture practices. *Agricultural Systems*, 173(February), 151–160.  
<https://doi.org/10.1016/j.agsy.2019.02.011>
- Johnston, C. A. (1998). *Geographic Information System in Ecology*. Blackwell Science.
- Kaplan, G., & Avdan, U. (2018). Sentinel-1 and Sentinel-2 data fusion for wetlands mapping: Balıkdami, Turkey. *International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives*, 42(3), 729–734. <https://doi.org/10.5194/isprs-archives-XLII-3-729-2018>
- Karleskint, G. (2009). *Introduction to Marine Biology*. Cengage Learning.
- KBBI. (2016a). *Identifikasi*. KBBI Daring.  
<https://kbbi.kemdikbud.go.id/entri/identifikasi>
- KBBI. (2016b). *Integrasi*. KBBI Daring.  
<https://kbbi.kemdikbud.go.id/entri/integrasi>
- KBBI. (2016c). *Laut*. [kbbi.web.id/laut](http://kbbi.web.id/laut)
- KBBI. (2016d). *Tambak*. KBBI Daring. <https://kbbi.web.id/tambak>
- Kementrian Kelautan dan Perikanan. (2015). *Luas Lahan Budidaya*. Statistik-KKP. <https://statistik.kkp.go.id>
- Khakim, N., Jatmiko, R. H., Nurjani, E., & Daryono, B. S. (2014). *Perubahan Iklim dan Pemanfaatan SIG di Kawasan Pesisir*. Gadjah Mada University Press.
- KKP. (2020). *Data Jumlah Pulau di Indonesia*.  
<https://kkp.go.id/djprl/p4k/page/4270-jumlah-pulau>
- Kulkarni, A. D., & Lowe, B. (2016). Random Forest Algorithm for Land Cover Classification. *International Journal on Recent and Innovation Trends in Computing and Communication*, 4(3), 58–63.  
[https://scholarworks.uttyler.edu/cgi/viewcontent.cgi?article=1002&context=comp\\_sci\\_fac](https://scholarworks.uttyler.edu/cgi/viewcontent.cgi?article=1002&context=comp_sci_fac)

- Lasabuda, R. (2013). Regional Development in Coastal and Ocean in Archipelago Perspective of The Republic of Indonesia. *Jurnal Ilmiah Platax, 1*, 92–101.  
<https://doi.org/10.35800/jip.1.2.2013.1251>
- Li, F., Liu, K., Tang, H., Liu, L., & Liu, H. (2018). Analyzing trends of dike-ponds between 1978 and 2016 using multi-source remote sensing images in Shunde District of South China. *Sustainability (Switzerland), 10*(10).  
<https://doi.org/10.3390/su10103504>
- Lillesand, T. M., Kiefer, R. W., & Chipman, J. W. (2015). *Remote Sensing and Image Interpretation* (Seventh Ed). John Wiley & Sons, Inc.
- Liu, C. an, Chen, Z. xin, Shao, Y., Chen, J. song, Hasi, T., & Pan, H. zhu. (2019). Research advances of SAR remote sensing for agriculture applications: A review. *Journal of Integrative Agriculture, 18*(3), 506–525.  
[https://doi.org/10.1016/S2095-3119\(18\)62016-7](https://doi.org/10.1016/S2095-3119(18)62016-7)
- Loosvelt, L., Peters, J., Skriver, H., Lievens, H., Van Coillie, F. M. B., De Baets, B., & Verhoest, N. E. C. (2012). Random Forests as a tool for estimating uncertainty at pixel-level in SAR image classification. *International Journal of Applied Earth Observation and Geoinformation, 19*(1), 173–184.  
<https://doi.org/10.1016/j.jag.2012.05.011>
- 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>
- Marfai, M. A., King, L., Sartohadi, J., Sudrajat, S., Budiani, S. R., & Yulianto, F. (2008). The impact of tidal flooding on a coastal community in Semarang, Indonesia. *Environmentalist, 28*(3), 237–248.  
<https://doi.org/10.1007/s10669-007-9134-4>
- Marfai, M. A., Mardiatno, D., Cahyad, A., & Nucifera, F. (2017). Pemodelan Spasial Bahaya Banjir Rob Berdasarkan Skenario. *Bumi Lestari, 13*(2), 244–256.
- Marini, Y., Emiyati, Prayogo, T., Hamzah, R., & Hasyim, B. (2013). Fishpond Aquaculture Inventory in Maros Regency of South Sulawesi Province. *International Journal of Remote Sensing and Earth Sciences, 10*(1), 25–35.  
[https://www.academia.edu/7964953/FISHPOND\\_AQUACULTURE\\_INVENTORY\\_IN\\_MAROS\\_REGENCY\\_OF\\_SOUTH\\_SULAWESI\\_PROVINCE](https://www.academia.edu/7964953/FISHPOND_AQUACULTURE_INVENTORY_IN_MAROS_REGENCY_OF_SOUTH_SULAWESI_PROVINCE)
- Mcfeters, S. K. (1996). The use of the Normalized Difference Water Index ( NDWI ) in the delineation of open water features. *International Journal of Remote Sensing, 17*(7), 1425–1432.  
<https://doi.org/10.1080/01431169608948714>
- Medasani, S., & Reddy, G. U. (2018). Speckle Filtering and its Influence on the Decomposition and Classification of Hybrid Polarimetric Data of RISAT-1.



*Remote Sensing Applications: Society and Environment*, 10(February), 1–6.  
<https://doi.org/10.1016/j.rsase.2018.02.002>

Millard, K., & Richardson, M. (2013). Wetland mapping with LiDAR derivatives, SAR polarimetric decompositions, and LiDAR-SAR fusion using a random forest classifier. *Canadian Journal of Remote Sensing*, 39(4), 290–307.  
<https://doi.org/10.5589/m13-038>

Mohanaiah, P., Sathyanarayana, P., & Gurukumar, L. (2013). Image Texture Feature Extraction Using GLCM Approach. *International Journal of Scientific & Research Publication*, 3(5), 1–5.

Mustafa, A., & Athirah, A. (2014). Aplikasi Analisis Jalur Dalam Penentuan Pengaruh Kualitas Tanah dan Air Terhadap Produksi Total Tambak di Kabupaten Demak, Provinsi Jawa Tengah. *Jurnal Kelautan Nasional*, 9(2), 65–79. <http://pusriskel.litbang.kkp.go.id/index.php/en/publikasi/jurnal-kelnas/terbitan-?download=22727%3Ajkvol09no022014>

Mustafa, A., Suhaimi, R. A., & Hasnawi. (2015). Opsi Pengelolaan Tanah untuk Teknologi Tradisional Berdasarkan Karakteristik Tanah Tambak di Kecamatan Tayu Kabupaten Pati Provinsi Jawa Tengah. *Balai Penelitian dan Pengembangan Budidaya Maros*, 129, 127–140.  
<https://bppbapmaros.kkp.go.id/wp-content/uploads/2016/07/JRA-10.3.pdf>

Nagamani, K., & Suresh, Y. (2019). Evaluation of coastal aquaculture ponds using remote sensing and GIS. *Indian Journal of Geo-Marine Sciences*, 48(8), 1205–1209.

Nahar, M. S. (2019). *Analisis Kesesuaian Tambak Garam di Pesisir Kecamatan Trangkil Kabupaten Pati*. [http://eprints.ums.ac.id/78309/31/NASKAH\\_PUBLIKASI.pdf](http://eprints.ums.ac.id/78309/31/NASKAH_PUBLIKASI.pdf)

Nguyen, H. H., McAlpine, C., Pullar, D., Johansen, K., & Duke, N. C. (2013). The relationship of spatial-temporal changes in fringe mangrove extent and adjacent land-use: Case study of Kien Giang coast, Vietnam. *Ocean and Coastal Management*, 76, 12–22.  
<https://doi.org/10.1016/j.ocecoaman.2013.01.003>

Nie, Y., Liu, Q., & Liu, S. (2013). Glacial lake expansion in the Central Himalayas by landsat images, 1990-2010. *PLoS ONE*, 8(12), 1–8.  
<https://doi.org/10.1371/journal.pone.0083973>

Nizalapur, V., & Vyas, A. (2020). Texture analysis for land use land cover (LULC) classification in parts of Ahmedabad, Gujarat. *International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives*, 43(B3), 275–279. <https://doi.org/10.5194/isprs-archives-XLIII-B3-2020-275-2020>

Obida, C. B., Blackburn, G. A., Whyatt, J. D., & Semple, K. T. (2019a). River network delineation from Sentinel-1 SAR data. *International Journal of*

*Applied Earth Observation and Geoinformation*, 83(July), 101910.  
<https://doi.org/10.1016/j.jag.2019.101910>

Obida, C. B., Blackburn, G. A., Whyatt, J. D., & Semple, K. T. (2019b). River network delineation from Sentinel-1 SAR data. *International Journal of Applied Earth Observation and Geoinformation*, 83(June), 101910.  
<https://doi.org/10.1016/j.jag.2019.101910>

Ottinger, M., Clauss, K., Huth, J., Eisfelder, C., Leinenkugel, P., & Kuenzer, C. (2018). Time series sentinel-1 SAR data for the mapping of aquaculture ponds in coastal Asia. *International Geoscience and Remote Sensing Symposium (IGARSS)*, 2018-July, 9371–9374.  
<https://doi.org/10.1109/IGARSS.2018.8651419>

Ottinger, M., Clauss, K., & Kuenzer, C. (2016). Aquaculture: Relevance, distribution, impacts and spatial assessments - A review. *Ocean and Coastal Management*, 119(2016), 244–266.  
<https://doi.org/10.1016/j.ocecoaman.2015.10.015>

Ottinger, M., Clauss, K., & Kuenzer, C. (2017). Large-scale assessment of coastal aquaculture ponds with Sentinel-1 time series data. *Remote Sensing*, 9(5).  
<https://doi.org/10.3390/rs9050440>

Ottinger, M., Kuenzer, C., Liu, G., Wang, S., & Dech, S. (2013). Monitoring land cover dynamics in the Yellow River Delta from 1995 to 2010 based on Landsat 5 TM. *Applied Geography*, 44, 53–68.  
<https://doi.org/10.1016/j.apgeog.2013.07.003>

Peng, Y., Chen, G., Li, S., Liu, Y., & Pernetta, J. C. (2013). Use of degraded coastal wetland in an integrated mangrove-aquaculture system: A case study from the South China Sea. *Ocean and Coastal Management*, 85, 209–213.  
<https://doi.org/10.1016/j.ocecoaman.2013.04.008>

Pikatan, A. H. (2015). *Dampak Erosi dan Kenaikan Muka Air Laut di Desa Bedono, Kabupaten Dema*.

Porporato, E. M. D., Pastres, R., & Brigolin, D. (2020). Site Suitability for Finfish Marine Aquaculture in the Central Mediterranean Sea. *Frontiers in Marine Science*, 6(January), 1–12. <https://doi.org/10.3389/fmars.2019.00772>

Prasad, K. A., Ottinger, M., Wei, C., & Leinenkugel, P. (2019). Assessment of coastal aquaculture for India from Sentinel-1 SAR time series. *Remote Sensing*, 11(3). <https://doi.org/10.3390/rs11030357>

Prasetyo, A. B., Albasri, H., & Rasidi. (2010). Perkembangan Budidaya Bandeng Di Pantai Utara Jawa Tengah. *Prosiding Forum Inovasi Teknologi Akuakultur 2010*, 123–137.

Putri, D. R., Sukmono, A., & Sudarsono, B. (2018). Analisis Kombinasi Citra Sentinel-1A dan Citra Sentinel-2A untuk Klasifikasi Tutupan Lahan (Studi Kasus: Kabupaten Demak, Jawa Tengah). *Jurnal Geodesi Undip*, 7(2), 85–

96. <https://ejournal3.undip.ac.id/index.php/geodesi/article/view/20660>
- Qiu, F., Berglund, J., Jensen, J. R., Thakkar, P., & Ren, D. (2004). Speckle noise reduction in SAR imagery using a local adaptive median filter. *GIScience and Remote Sensing*, 41(3), 244–266. <https://doi.org/10.2747/1548-1603.41.3.244>
- Radovic, M., Djokovic, M., Peulic, A., & Filipovic, N. (2013). Application of data mining algorithms for mammogram classification. *13th IEEE International Conference on BioInformatics and BioEngineering, IEEE BIBE 2013*, 0–3. <https://doi.org/10.1109/BIBE.2013.6701551>
- Rana, V. K., & Suryanarayana, T. M. V. (2019). Evaluation of SAR speckle filter technique for inundation mapping. *Remote Sensing Applications: Society and Environment*, 16(October), 100271. <https://doi.org/10.1016/j.rsase.2019.100271>
- Rapinel, S., Fabre, E., Dufour, S., Arvor, D., Mony, C., & Hubert-Moy, L. (2019). Mapping potential, existing and efficient wetlands using free remote sensing data. *Journal of Environmental Management*, 247(November 2018), 829–839. <https://doi.org/10.1016/j.jenvman.2019.06.098>
- Ren, C., Wang, Z., Zhang, B., Li, L., Chen, L., Song, K., & Jia, M. (2018). Remote Monitoring of Expansion of Aquaculture Ponds Along Coastal Region of the Yellow River Delta from 1983 to 2015. *Chinese Geographical Science*, 28(3), 430–442. <https://doi.org/10.1007/s11769-017-0926-2>
- Ren, C., Wang, Z., Zhang, Y., Zhang, B., Chen, L., Xi, Y., Xiao, X., Doughty, R. B., Liu, M., Jia, M., Mao, D., & Song, K. (2019). Rapid expansion of coastal aquaculture ponds in China from Landsat observations during 1984–2016. *International Journal of Applied Earth Observation and Geoinformation*, 82(April), 101902. <https://doi.org/10.1016/j.jag.2019.101902>
- 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>
- Ruzza, G., Guerriero, L., Grelle, G., Guadagno, F. M., & Revellino, P. (2019). Multi-method tracking of monsoon floods using Sentinel-1 imagery. *Water (Switzerland)*, 11(11). <https://doi.org/10.3390/w11112289>
- Sampurno, R. M., & Thoriq, A. (2016). Klasifikasi Tutupan Lahan Menggunakan Citra Landsat 8 Operational Land Imager (OLI) di Kabupaten Sumedang. *Jurnal Teknotan*, 10(2), 61–70. <https://pdfs.semanticscholar.org/3bde/1c16414baabf6608772c173406e8f99f0058.pdf>
- Saputra, I. (2019). *Perancangan Aplikasi Fusi Citra Multispektral Dan Citra*

*Pankromatik Untuk Penajaman Citra Dengan Menerapkan Metode Transformasi Brovey.*

[https://www.academia.edu/30415176/Perancangan\\_Aplikasi\\_Fusi\\_Citra\\_Multispektral\\_Dan\\_Citra\\_Pankromatik\\_Untuk\\_Penajaman\\_Citra\\_Dengan\\_Menerapkan\\_Metode\\_Transformasi\\_Brovey](https://www.academia.edu/30415176/Perancangan_Aplikasi_Fusi_Citra_Multispektral_Dan_Citra_Pankromatik_Untuk_Penajaman_Citra_Dengan_Menerapkan_Metode_Transformasi_Brovey)

Schiller, C. (2015). *Understanding Sentinel-2 Satellite Data*. EOX.

<https://eox.at/2015/12/understanding-sentinel-2-satellite-data/>

Setyogati, W. (2015). *Desain dan Konstruksi Tambak* (hal. 23).

[https://www.academia.edu/8854514/DESAIN\\_DAN\\_KONSTRUKSI\\_TAMBAK](https://www.academia.edu/8854514/DESAIN_DAN_KONSTRUKSI_TAMBAK)

Singh, Y. (2017). *Digital Image Processing*.

[https://www.slideshare.net/lakhveersingh8/digital-image-processing-72281217?from\\_action=save](https://www.slideshare.net/lakhveersingh8/digital-image-processing-72281217?from_action=save)

Soares, J. V., Rennó, C. D., Formaggio, A. R., Yanasse, C. D. C. F., & Frery, A.

C. (1997). An investigation of the selection of texture features for crop discrimination using SAR imagery. *Remote Sensing of Environment*, 59(2), 234–247. [https://doi.org/10.1016/S0034-4257\(96\)00156-3](https://doi.org/10.1016/S0034-4257(96)00156-3)

Soebagyo, F. (2013, Oktober 10). *Minapolitan Kabupaten Pati Menuju Industrialisasi*.

<http://firmansoebagyo.com/Berita/tabid/120/ID/1830/Minapolitan-Kabupaten-Pati-MenujuIndustrialisasi.aspx>.

Sridhar, P. N., Surendran, A., & Ramana, I. V. (2008). Auto-extraction technique-based digital classification of saltpans and aquaculture plots using satellite data. *International Journal of Remote Sensing*, 29(2), 313–323.

<https://doi.org/10.1080/01431160701250374>

Stiller, D., Ottinger, M., & Leinenkugel, P. (2019). Spatio-temporal patterns of coastal aquaculture derived from Sentinel-1 time series data and the full Landsat archive. *Remote Sensing*, 11(14), 1–18.

<https://doi.org/10.3390/rs11141707>

Sun, Z., Luo, J., Yang, J., Yu, Q., Zhang, L., Xue, K., & Lu, L. (2020). Nation-scale mapping of coastal aquaculture ponds with sentinel-1 SAR data using google earth engine. *Remote Sensing*, 12(18), 1–18.

<https://doi.org/10.3390/RS12183086>

Suryanti, W. A., & Marfai, A. (2016). Analisis Multibahaya di Wilayah Pesisir Kabupaten Demak. *Jurnal Bumi Indonesia*, 5, Nomor 2.

<http://lib.geo.ugm.ac.id/ojs/index.php/jbi/article/view/694/667>

Syah, A. F. (2010). Penginderaan Jauh dan Aplikasinya di Wilayah Pesisir dan Lautan. *Jurnal Kelautan*, 3(1), 18–28.

<https://journal.trunojoyo.ac.id/jurnalkelautan/article/download/838/737>

Tian, S., Zhang, X., Tian, J., & Sun, Q. (2016). Random forest classification of

- wetland landcovers from multi-sensor data in the arid region of Xinjiang, China. *Remote Sensing*, 8(11), 1–14. <https://doi.org/10.3390/rs8110954>
- Tjahyanityasa, W. F. (2019). *Pemanfaatan Penginderaan Jauh Untuk Mengetahui Penggunaan*. November, 1–7. [https://www.researchgate.net/publication/337257298\\_PEMANFAATAN\\_PENGINDERAAN\\_JAUH\\_UNTUK\\_PEMBANGUNAN\\_TAMBAK\\_BANDENG\\_DI\\_KABUPATEN\\_SIDOARJO](https://www.researchgate.net/publication/337257298_PEMANFAATAN_PENGINDERAAN_JAUH_UNTUK_PEMBANGUNAN_TAMBAK_BANDENG_DI_KABUPATEN_SIDOARJO)
- Troell, M., Kautsky, N., Beveridge, M., Henriksson, P., Primavera, J., Rönnbäck, P., & Folke, C. (2013). Aquaculture. *Encyclopedia of Biodiversity: Second Edition*, 1, 189–201. <https://doi.org/10.1016/B978-0-12-384719-5.00307-5>
- Utama, G. (2015). *Karakteristik Spektral Air dan Salju*. Kompasiana Beyond Blogging. <https://www.kompasiana.com/gerryutama/551273518133114354bc685c/karakteristik-spektral-air-dan-salju>
- Wang, K., Franklin, S. E., Guo, X., He, Y., & McDermid, G. J. (2009). Problems in remote sensing of landscapes and habitats. *Progress in Physical Geography*, 33(6), 747–768. <https://doi.org/10.1177/0309133309350121>
- Watson, C. S., King, O., Miles, E. S., & Quincey, D. J. (2018). Optimising NDWI supraglacial pond classification on Himalayan debris-covered glaciers. *Remote Sensing of Environment*, 217(September), 414–425. <https://doi.org/10.1016/j.rse.2018.08.020>
- Widiatmaka, Ambarwulan, W., Setiawan, Y., Purwanto, M. Y. J., Taryono, & Effendi, H. (2015). Land use planning for brackish water shrimp ponds in the North Coast of Tuban, Indonesia. *Indonesian Journal of Geography*, 47(2), 194–211. <https://doi.org/10.22146/ijg.9268>
- Widigdo, B. (2003). Diperlukan Pembakuan Kriteria Eko-Biologis Untuk Menentukan “Potensi Alami” Kawasan Pesisir Untuk Budidaya Udang. *Prosiding Pelatihan untuk Pelatih, Pengelolaan Wilayah Pesisir Terpadu*, 60–73. <https://repository.ipb.ac.id/handle/123456789/25059>
- Xia, Z., Guo, X., & Chen, R. (2020). Automatic extraction of aquaculture ponds based on Google Earth Engine. *Ocean and Coastal Management*, 198(September), 105348. <https://doi.org/10.1016/j.ocecoaman.2020.105348>
- Xiao, R., Shen, W., Fu, Z., Shi, Y., Xiong, W., & Cao, F. (2012). The application of remote sensing in the environmental risk monitoring of tailings pond: a case study in Zhangjiakou area of China. *Earth Resources and Environmental Remote Sensing/GIS Applications III*, 8538(201109043), 85381C. <https://doi.org/10.1117/12.964380>
- Yu, Z., Di, L., Rahman, M. S., & Tang, J. (2020). Fishpond mapping by spectral and spatial-based filtering on google earth engine: A case study in singra upazila of Bangladesh. *Remote Sensing*, 12(17).



<https://doi.org/10.3390/RS12172692>

Yusuf, D., & Rijal, A. S. (2018). *Penginderaan Jauh*. Program Studi Pendidikan Geografi. <http://repository.lppm.unila.ac.id/7346/>

Zhang, S., Foerster, S., Medeiros, P., de Araújo, J. C., & Waske, B. (2018). Effective water surface mapping in macrophyte-covered reservoirs in NE Brazil based on TerraSAR-X time series. *International Journal of Applied Earth Observation and Geoinformation*, 69(August 2017), 41–55. <https://doi.org/10.1016/j.jag.2018.02.014>

Zhang, Y., Zhang, G., & Zhu, T. (2020). Seasonal cycles of lakes on the Tibetan Plateau detected by Sentinel-1 SAR data. *Science of the Total Environment*, 703, 135563. <https://doi.org/10.1016/j.scitotenv.2019.135563>