

References

- Andreas, H., Abidin, H.Z., Sarsito, D.A. & Pradipta, D. (2018). Adaptation of 'early climate change disaster' to the northern coast of Java Island Indonesia. *Engineering Journal*, 22(3), 207–219. doi: 10.4186/ej.2018.22.3.207.
- Annisa Harum Sadewa AA., & Supriyadi AS. (2024). *The Use of Remote Sensing in Monitoring Shoreline Change: Implications for Maritime Area Security*. *Remote Sensing Technology in Defense and Environment RSTDE* 1(1): 28–35 ISSN 3062-8970.
- Badarul Azam, A. S., Malek, A. A., Ramlee, A. S., Muhammad Suhaimi, N. D. S., & Mohamed, N. (2020). Segmentation of Breast Microcalcification Using Hybrid Method of Canny Algorithm with Otsu Thresholding and 2D Wavelet Transform. *IEEE International Conference on Control System, Computing and Engineering*. <https://doi.org/10.1109/ICCSCE50387.2020.9204950>
- Bishop, T. F. A., et al. (2014). Ground truthing remote sensing data: A case study of coastal change in the Pacific Northwest. *Remote Sensing of Environment*, 151, 1-12.
- Canny, J. (1986). A computational approach to edge detection. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, PAMI-8(6), 679–698. <https://doi.org/10.1109/TPAMI.1986.4767851>
- Chavez, P. S. (1996). Image-based atmospheric corrections—Revisited and improved. *Photogrammetric Engineering & Remote Sensing*, 62(9), 1025-1036.
- Chaussard Estelle, Amelung F, Abidin HZ, SanHoon Hong. (2013). Sinking cities in Indonesia: ALOS PALSAR detects rapid subsidence due to groundwater and gas extraction. *Remote Sensing of Environment* 128 (2013) 150 -161 <http://dx.doi.org/10.1016/j.rse.2012.10.015>
- Dave, C. P., Joshi, R., & Srivastava, S. S. (2015). A survey on geometric correction of satellite imagery. *International Journal of Computer Applications*, 116(12), 1-6. Accessed in https://www.researchgate.net/publication/276128802_A_Survey_on_Geometric_Correction_of_Satellite_Imagery
- Donchyts, G., Schellekens, J., Winsemius, H., Eisemann, E., & Van de Giesen, N. (2016). A 30 m resolution surface water mask including estimation of positional and thematic differences using Landsat 8, SRTM and OpenStreetMap: A case study in the Murray-Darling Basin, Australia. *Remote Sensing*, 8(5), 386. <https://doi.org/10.3390/rs8050386>
- El_Rahman, S. A. (2016). Hyperspectral image classification using unsupervised algorithms. *International Journal of Advanced Computer Science and Applications*, 7(4), 198–204. <https://doi.org/10.14569/IJACSA.2016.070427>
- Farr, T. G., Rosen, P. A., Caro, E., Crippen, R., Duren, R., Hensley, S., Kobrick, M., Paller, M., Rodriguez, E., Roth, L., Seal, D., Shaffer, S., Shimada, J., Umland, J., Werner, M., Oskin, M., Burbank, D., & Alsdorf, D. (2007). The Shuttle Radar Topography Mission. *Reviews of Geophysics*, 45(2). <https://doi.org/10.1029/2005RG000183>
- Feyisa, G. L., Meilby, H., Fensholt, R., & Proud, S. R. (2014). Automated Water Extraction Index: A new technique for surface water mapping using Landsat imagery. *Remote Sensing of Environment*, 140, 23–35.
- Ganjirad, M., & Bagheri, H. (2024). Google Earth Engine-based mapping of land use and land cover for weather forecast models using Landsat 8 imagery. *Ecological Informatics*, 80, 102498. <https://doi.org/10.1016/j.ecoinf.2024.102498>.

- Gorelick, N., et al. (2017). Google Earth Engine: Planetary-scale geospatial analysis for everyone. *Remote Sensing of Environment*, 202, 18-27.
- Hong'e, R., Dongxu, H., Meng, Z., Ming, Y., & Xiaolong, Z. (2018). *Improved Canny-based automatic threshold edge detection method*.
- Himmelstoss, E., Henderson, R. E., Kratzmann, M. G., Farris, A. S., & Survey, U. S. G. (2021). Digital Shoreline Analysis System (DSAS) version 5.1 user guide.. <https://doi.org/10.3133/ofr20211091>
- Hossain, M. S., Yasir, M., Wang, P., Ullah, S., Ferdoushi, A., Islam, A. R. M. T., & Mohsin, A. N. (2021). Automatic shoreline extraction and change detection: A study on the southeast coast of Bangladesh. *Marine Geology*, 441, 106628. <https://doi.org/10.1016/j.margeo.2021.106628>
- Hong'e, R., Dongxu, H., Meng, Z., Ming, Y., & Xiaolong, Z. (2018). *Improved Canny-based automatic threshold edge detection method*.
- Jensen, J. R. (2005). *Introductory Digital Image Processing: A Remote Sensing Perspective*. Upper Saddle River, NJ: Prentice Hall.
- Kim, G., S. Lee, J. Im, C. K. Song, J. Kim, and M. I. Lee. (2021). "Aerosol Data Assimilation and Forecast Using Geostationary Ocean Color Imager Aerosol Optical Depth and in-Situ Observations During the KORUS-AQ Observing Period." *GIScience & Remote Sensing* 58 (7): 1175–1194. <https://doi.org/10.1080/15481603.2021.1972714>.
- Kulkarni, A., Chong, D., & Batarseh, F. A. (2020). Foundations of data imbalance and solutions for a data democracy. In F. A. Batarseh & R. Gonzalez (Eds.), *Data democracy: At the nexus of artificial intelligence, software development, and knowledge engineering* (pp. 83–106). Academic Press. <https://doi.org/10.1016/B978-0-12-818366-3.00005-8>
- Lahlali, A., El Maskaoui, Z., Bousshine, L., & et al. (2023). Development of a new concept of multimission pollution control vessel and optimization of its bulbous bow. *Journal of Marine Science and Application*, 22(4), 513–526. <https://doi.org/10.1007/s11804-023-00360-8>
- Lillesand, T. M., Kiefer, R. W., & Chipman, J. W. (2015). *Remote sensing and image interpretation* (7th ed.). Wiley. ISBN: 978-1-118-34328-9.
- Lin, C.H.; Tsai, P.H.; Lai, K.H.; Chen, J.Y. Cloud Removal From Multitemporal Satellite Images Using Information Cloning. *IEEE Trans. Geosci. Remote Sens.* **2013**, *51*, 232–241.
- Liu, B., Zhang, X., & Hong, H. (2018). *Threshold-adaptive canny operator based on cross-zero points*. 10609, 148–154. <https://doi.org/10.1117/12.2284459>
- Mahua, M. H., Kasim, F., & Pasingi, N. (2023). Analysis of Coastline Changes in Gorontalo City Using Remote Sensing Technology. Submitted: August 22, 2023; Accepted: September 10, 2023. Department of Water Resources Management, Faculty of Fisheries and Marine Sciences, State University of Gorontalo.
- Marfai, M.A., Almohamad, H., Dey, S., Susanto, B and King, L., (2008). Coastal dynamic and shoreline mapping: multi-sources spatial data analysis in Semarang Indonesia. *Environmental Monitoring and Assessment*, 142, pp. 297-308
- Mateo-García, G., Gómez-Chova, L., Amorós-López, J., Muñoz-Marí, J., & Camps-Valls, G. (2018). Multitemporal cloud masking in the Google Earth Engine. *Remote Sensing*, 10(7), 1079. <https://doi.org/10.3390/rs10071079>
- McFeeters, 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.
- Müller, J. P., & Schmitt, A. (2015). Mosaicking of remote sensing images: A review. *ISPRS Journal of Photogrammetry and Remote Sensing*, 104, 1-15.
- Murdohardono, D dan Tirtomihardjo, H. (1993). Penurunan tanah di Jakarta dan rencana pemantauannya, In: Proceedings of the 22nd annual convention of the Indonesian association of geologists, Bandung, 6–9 December, pp 346–354
- Murdohardono, D and Sudarsono, U. (1998). Land subsidence monitoring system in Jakarta, In: Proceedings of symposium on Japan-Indonesia IDNDR Project: Volcanology, tectonics, flood and sediment hazards, Bandung, 21–23 September, pp 243–256.
- Nur Ihsan, K.T., Purnomo, A.D., Arini, K.S., 2021. ULIN-D: Web-based GIS supporting new habits in the tourism sector in Bandung city, in: International Archives of the Photogrammetry, Remote Information Sciences Sensing - ISPRS and Spatial Archives. <https://doi.org/10.5194/isprs-archives-XLIV-M-3-2021-79-2021>.
- Nguyen, M. H., Nguyen, N. T., Ryadi, G. Y. I., Nguyen, M. V., Duong, T. L., Lin, C.-H., & Nguyen, T. B. (2024). Google Earth Engine-based mangrove mapping and change detections for sustainable development in Tien Yen District, Quang Ninh Province, Vietnam. *ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences*, X-5, 119-126. <https://doi.org/10.5194/isprs-annals-X-5-2024-119-2024>.
- Sengupta, D., Chen, R., Meadows, M. E., & Banerjee, A. (2020). Gaining or losing ground? Tracking Asia's hunger for 'new' coastal land in the era of sea level rise. *Science of The Total Environment*, 732, 139290. <https://doi.org/10.1016/j.scitotenv.2020.139290>
- Sun, W., Chen, C., Liu, W., Yang, G., Meng, X., Wang, L., & Ren, K. (2023). Coastline extraction using remote sensing: A review. *GIScience & Remote Sensing*, 60(1), 1–26. <https://doi.org/10.1080/15481603.2023.2243671>
- Sutanta, H., Rachman. A., Sumaryo and Diyono. (2005). Predicting Land Use Affected by Land Subsidence in Semarang Based on Topographic Map of Scale 1:5.000 and Leveling Data. (Proceedings of the Map Asia 2005 Conference (in CDRom).
- Syamsuddin, M. L., Saitoh, S.-I., Hirawake, T., Bachri, S., & Harto, A. B. (2013). Effects of El Niño–Southern Oscillation events on catches of Bigeye Tuna (*Thunnus obesus*) in the eastern Indian Ocean off Java. **Fisheries Bulletin*, 111*(2), 175–188.
- Tamiminia, H., Salehi, B., Mahdianpari, M., Quackenbush, L., Adeli, S., Brisco, B., (2020). Google Earth Engine for geo big data applications: A meta-analysis and systematic review. *ISPRS Journal of Photogrammetry and Remote Sensing* 164, 152–170.
- Thenkabail, P. S. (Ed.). (2016). Remote sensing handbook volume III: Agriculture, food security, rangelands, vegetation, phenology, and soils (2nd ed.). CRC Press. ISBN 978-1-4822-1791-9.
- Wang, W. (2023). Automatic extraction of coastline based on Google Earth engine. *International Journal of Computer Science and Information Technology*, 1(1). <https://doi.org/10.62051/ijcsit.v1n1.14>
- Wicaksono, A., & Wicaksono, P. (2018). Geometric Accuracy Assessment for Shoreline Derived from NDWI, MNDWI, and AWEI Transformation on Various Coastal Physical Typology in Jepara Regency using Landsat 8 OLI Imagery. *Journal of Geomatics and Planning* Vol 6, No 1, 2019, 55-72. <https://doi.org/10.14710/geoplanning.6.1.55-72>.



- Wulandari, L. T. (2024). Penanaman Pohon Bakau Di Pantai Keraya Kecamatan Kumai Kabupaten Kotawaringin Barat Sebagai Bentuk Kepedulian Terhadap Lingkungan Hidup. *Jurnal Pengabdian ILUNG (Inovasi Lahan Basah Unggul)*, 3(4), 665. <https://doi.org/10.20527/ilung.v3i4.12183>
- Xu, H. (2006). Modification of Normalised Difference Water Index (NDWI) to Enhance Open Water Features in Remotely Sensed Imagery. *International Journal of Remote Sensing*, 27(14), 10–12.
- Zhang, Y., Chen, J., & Wang, X. (2016). A cloud masking method for Landsat 8 imagery based on the spectral characteristics of clouds. *Remote Sensing*, 8(4), 290.
- Zhi, F., Dong, Z., Guga, S., Bao, Yongbin, Han, A., Zhang, J., Bao, Yulong, (2022). Rapid and automated mapping of crop type in jilin province using historical crop label and the google earth engine. *Remote Sens (Basel)* 14, 4028. <https://doi.org/10.3390/rs14164028>