

## DAFTAR PUSTAKA

- Airiken, M., Zhang, F., Chan, N. W., & Kung, H. te. (2022). Assessment of spatial and temporal ecological environment quality under land use change of urban agglomeration in the North Slope of Tianshan, China. *Environmental Science and Pollution Research*, 29(8). <https://doi.org/10.1007/s11356-021-16579-3>
- Ajie, A., & Djurdjani. (2020). *ANALISA KEAKURATAN ADD-ON MOLUSCE PADA QGIS UNTUK PREDIKSI PERUBAHAN PENGGUNAAN LAHAN DI KABUPATEN SLEMAN, DI YOGYAKARTA*. Universitas Gadjah Mada.
- Alam, N., Saha, S., Gupta, S., & Chakraborty, S. (2021). Prediction modelling of riverine landscape dynamics in the context of sustainable management of floodplain: a Geospatial approach. *Annals of GIS*, 27(3), 299–314. <https://doi.org/10.1080/19475683.2020.1870558>
- An, M., Xie, P., He, W., Wang, B., Huang, J., & Khanal, R. (2022). Spatiotemporal change of ecologic environment quality and human interaction factors in three gorges ecologic economic corridor, based on RSEI. *Ecological Indicators*, 141, 109090. <https://doi.org/10.1016/j.ecolind.2022.109090>
- Andaryani, S., Sloan, S., Nourani, V., & Keshtkar, H. (2021). The utility of a hybrid GEOMOD-Markov Chain model of land-use change in the context of highly water-demanding agriculture in a semi-arid region. *Ecological Informatics*, 64, 101332. <https://doi.org/10.1016/j.ecoinf.2021.101332>
- Aneesha Satya, B., Shashi, M., & Deva, P. (2020). Future land use land cover scenario simulation using open source GIS for the city of Warangal, Telangana, India. *Applied Geomatics*, 12(3), 281–290. <https://doi.org/10.1007/S12518-020-00298-4/TABLES/9>
- Annatakarn, K., Annatakarn, K., Fooprateepsiri, R., Suwanprapab, M., Supunyachotsakul, C., & Witchayangkoon, B. (2022). Finding Threshold for NDVI to Classify Green Area: Case Study in the Central Thailand. *Journal of Hunan University Natural Sciences*, 49(4). <https://doi.org/10.55463/issn.1674-2974.49.4.34>
- Astuti, W., Putri, B. L. R., Anwar, K., Yanti, N., & Pambudi, P. (2022). Estimasi Kebutuhan Ruang Terbuka Hijau (RTH) Berdasarkan Urban Heat Island (UHI) di Kota Semarang. *Jurnal Riptek*, 16(2). <https://doi.org/10.35475/ripteke.v16i2.168>
- Badan Pusat Statistik. (2016). *Penggolongan Pendapatan Penduduk* (Badan Pusat Statistik, Ed.).
- Badan Pusat Statistik Klasifikasi Perkotaan Dan Perdesaan. (2010). *Peraturan Kepala Badan Pusat Statistik Nomor 37 Tahun 2010 Tentang Cetakan II*.
- Bangira, T., Alfieri, S. M., Menenti, M., & van Niekerk, A. (2019). Comparing thresholding with machine learning classifiers for mapping complex water. *Remote Sensing*, 11(11). <https://doi.org/10.3390/rs11111351>
- Bramantio, B., Hizbaron, D. R., & Khakhim, N. (2024). Prediction of the future landuse and land cover changes in the Parangtritis sand dune: a spatio temporal analysis using QGIS MOLUSCE. *IOP Conference Series: Earth and*

- Environmental Science*, 1313(1), 012014. <https://doi.org/10.1088/1755-1315/1313/1/012014>
- Budiman, A., Sulistyantara, B., & Zain, A. F. (2014). Deteksi Perubahan Ruang Terbuka Hijau Pada 5 Kota Besar Di Pulau Jawa (Studi Kasus : DKI Jakarta, Kota Bandung, Kota Semarang, Kota Jogjakarta, Dan Kota Surabaya). *Jurnal Lanskap Indonesia*, 6(1).
- Carter, J. V., Pan, J., Rai, S. N., & Galandiuk, S. (2016). ROC-ing along: Evaluation and interpretation of receiver operating characteristic curves. *Surgery (United States)*, 159(6). <https://doi.org/10.1016/j.surg.2015.12.029>
- Chander, G., Markham, B. L., & Helder, D. L. (2009). Summary of current radiometric calibration coefficients for Landsat MSS, TM, ETM+, and EO-1 ALI sensors. *Remote Sensing of Environment*, 113(5), 893–903. <https://doi.org/10.1016/j.rse.2009.01.007>
- Chen, Y., Zhao, S., Xie, Z., Lu, D., & Chen, E. (2020). Mapping multiple tree species classes using a hierarchical procedure with optimized node variables and thresholds based on high spatial resolution satellite data. *GIScience and Remote Sensing*, 57(4). <https://doi.org/10.1080/15481603.2020.1742459>
- Chuvieco, E. (2008). Teledetección ambiental: La observación de la Tierra desde el Espacio. In *Entorno Geografico* (Vol. 3).
- Cohen, J. (1960). A coefficient of agreement for nominal scales. *Educational and Psychological Measurement*, 20(1).
- Congalton, R. G. (2015). Remote Sensing and Image Interpretation. 7th Edition. *Photogrammetric Engineering & Remote Sensing*, 81(8). <https://doi.org/10.14358/pers.81.8.615>
- Dai, X., Chen, J., & Xue, C. (2023a). Spatiotemporal Patterns and Driving Factors of the Ecological Environmental Quality along the Jakarta–Bandung High-Speed Railway in Indonesia. *Sustainability*, 15(16), 12426. <https://doi.org/10.3390/su151612426>
- Dai, X., Chen, J., & Xue, C. (2023b). Spatiotemporal Patterns and Driving Factors of the Ecological Environmental Quality along the Jakarta–Bandung High-Speed Railway in Indonesia. *Sustainability*, 15(16), 12426. <https://doi.org/10.3390/su151612426>
- Dede, Moh., Widiawaty, M. A., Nurhanifah, N., Ismail, A., Artati, A. R. P., Ati, A., & Ramadhan, Y. R. (2020). Estimasi Perubahan Kualitas Udara Berbasis Citra Satelit Penginderaan Jauh Di Sekitar PLTU Cirebon. *Jambura Geoscience Review*, 2(2). <https://doi.org/10.34312/jgeosrev.v2i2.5951>
- Deilami, B. R., Ahmad, B. Bin, Saffar, M. R. A., & Umar, H. Z. (2015). Review of change detection techniques from remotely sensed images. *Research Journal of Applied Sciences, Engineering and Technology*, 10(2).
- Dimiyati, R. D., Danoedoro, P., Hartono, H., Kustiyo, K., & Dimiyati, M. (2018). Digital Interpretability of Annual Tile-based Mosaic of Landsat-8 OLI for Time-series Land Cover Analysis in the Central Part of Sumatra. *Indonesian Journal of Geography*, 50(2), 168. <https://doi.org/10.22146/ijg.35046>
- Diniz, É. S., Lorenzon, A. S., de Castro, N. L. M., Marcatti, G. E., dos Santos, O. P., de Deus Júnior, J. C., Cavalcante, R. B. L., Fernandes-Filho, E. I., &

- Hummeldo Amaral, C. (2021). Forecasting frost risk in forest plantations by the combination of spatial data and machine learning algorithms. *Agricultural and Forest Meteorology*, 306, 108450. <https://doi.org/10.1016/j.agrformet.2021.108450>
- Duda, R. O., Hart, P. E., & Stork, D. G. (2000). Pattern Classification. In *New York: John Wiley, Section*.
- Fan, Q., Shi, Y., Song, X., & Cong, N. (2023). Study on Factors Affecting Remote Sensing Ecological Quality Combined with Sentinel-2. *Remote Sensing*, 15(8), 2156. <https://doi.org/10.3390/rs15082156>
- Fariz, T. R., Nurhidayati, E., Damayanti, H. N., & Safitri, E. (2020). KOMPARASI MODEL CELLULAR AUTOMATA DALAM MEMPREDIKSI PERUBAHAN LAHAN SAWAH DI KABUPATEN PURWOREJO. *Jukung (Jurnal Teknik Lingkungan)*, 6(2). <https://doi.org/10.20527/jukung.v6i2.9259>
- Fawzi, N. I., & Husna, V. N. (2021). Landsat 8: Sebuah Teori dan Teknik Pemrosesan Tingkat Dasar. In *El -Markazi* (Vol. 1, Issue April).
- Firozjaei, M. K., Kiavarz, M., Homae, M., Arsanjani, J. J., & Alavipanah, S. K. (2021). A novel method to quantify urban surface ecological poorness zone: A case study of several European cities. *Science of the Total Environment*, 757. <https://doi.org/10.1016/j.scitotenv.2020.143755>
- Foody, G. M. (2002). Status of land cover classification accuracy assessment. *Remote Sensing of Environment*, 80(1), 185–201. [https://doi.org/10.1016/S0034-4257\(01\)00295-4](https://doi.org/10.1016/S0034-4257(01)00295-4)
- Fuentes, M., Campos, C., & García-Loyola, S. (2018). Application of artificial neural networks to frost detection in central Chile using the next day minimum air temperature forecast. *Chilean Journal of Agricultural Research*, 78(3), 327–338. <https://doi.org/10.4067/S0718-58392018000300327>
- Gan, X., Du, X., Duan, C., & Peng, L. (2024). Evaluation of Ecological Environment Quality and Analysis of Influencing Factors in Wuhan City Based on RSEI. *Sustainability*, 16(13), 5809. <https://doi.org/10.3390/su16135809>
- Gao, P., Kasimu, A., Zhao, Y., Lin, B., Chai, J., Ruzi, T., & Zhao, H. (2020). Evaluation of the Temporal and Spatial Changes of Ecological Quality in the Hami Oasis Based on RSEI. *Sustainability*, 12(18), 7716. <https://doi.org/10.3390/su12187716>
- Geng, J., Yu, K., Xie, Z., Zhao, G., Ai, J., Yang, L., Yang, H., & Liu, J. (2022). Analysis of Spatiotemporal Variation and Drivers of Ecological Quality in Fuzhou Based on RSEI. *Remote Sensing*, 14(19), 4900. <https://doi.org/10.3390/rs14194900>
- Gina Fasha Salsabila. (2023). *EVALUASI KUALITAS EKOLOGI DI KABUPATEN CIANJUR BERDASARKAN REMOTE SENSING ECOLOGICAL INDEX*. Universitas Pendidikan Indonesia.
- Gong, C., Lyu, F., & Wang, Y. (2023). Spatiotemporal change and drivers of ecosystem quality in the Loess Plateau based on RSEI: A case study of Shanxi, China. *Ecological Indicators*, 155. <https://doi.org/10.1016/j.ecolind.2023.111060>

- Groffman, P. M., Baron, J. S., Blett, T., Gold, A. J., Goodman, I., Gunderson, L. H., Levinson, B. M., Palmer, M. A., Paerl, H. W., Peterson, G. D., Poff, N. L. R., Rejeski, D. W., Reynolds, J. F., Turner, M. G., Weathers, K. C., & Wiens, J. (2006). Ecological thresholds: The key to successful environmental management or an important concept with no practical application? In *Ecosystems* (Vol. 9, Issue 1). <https://doi.org/10.1007/s10021-003-0142-z>
- Grossman, G. M., & Krueger, A. B. (1995). Economic growth and the environment. *Quarterly Journal of Economics*, 110(2). <https://doi.org/10.2307/2118443>
- Hadibasyir, H. Z., Fikriyah, V. N., Sunariya, M. I. T., & Danardono, D. (2020). Pemetaan Kondisi Ekologi Perkotaan Skala Mikro Menggunakan Citra Landsat 8 di Kota Semarang. *LaGeografia*, 18(3). <https://doi.org/10.35580/lageografia.v18i3.13476>
- Hadibasyir, H. Z., & Firdaus, N. S. (2023). SPATIAL ANALYSIS OF URBAN ECOLOGICAL CONDITION IN DENPASAR CITY, INDONESIA USING LANDSAT 9 IMAGERY. *Jurnal Purifikasi*, 21(1). <https://doi.org/10.12962/j25983806.v21.i1.429>
- Hao, H., Lian, Z., Zhao, J., Wang, H., & He, Z. (2022). A Remote-Sensing Ecological Index Approach for Restoration Assessment of Rare-Earth Elements Mining. *Computational Intelligence and Neuroscience*, 2022. <https://doi.org/10.1155/2022/5335419>
- Hapsary, M. S. A., Subiyanto, S., & Firdaus, H. S. (2021). Analisis Prediksi Perubahan Penggunaan Lahan Dengan Pendekatan Artificial Neural Network Dan Regresi Logistik Di Kota Balikpapan. *Jurnal Geodesi Undip*, 10(2).
- Haryayudhanto, M. R., Habibie, M. I., Sari, D. A. K., Aryaguna, P. A., & Suryandari, R. Y. (2022). Green Open Space Assessment Using Vegetation Index Analysis (Case study: North Bekasi District). *2022 IEEE Asia-Pacific Conference on Geoscience, Electronics and Remote Sensing Technology: Understanding the Interaction of Land, Ocean, and Atmosphere: Smart City and Disaster Mitigation for Regional Resilience, AGERS 2022 - Proceeding*. <https://doi.org/10.1109/AGERS56232.2022.10093665>
- Hasnat, G. N. T. (2021). A Time Series Analysis of Forest Cover and Land Surface Temperature Change Over Dudpukuria-Dhopachari Wildlife Sanctuary Using Landsat Imagery. *Frontiers in Forests and Global Change*, 4. <https://doi.org/10.3389/ffgc.2021.687988>
- Hastuti, K. (2012). Analisis komparasi algoritma klasifikasi data mining untuk prediksi mahasiswa non aktif. *Seminar Nasional Teknologi Informasi & Komunikasi Terapan, Juni*(Semantik).
- He, T. X., Tian, N., Zhou, R., Ma, Q., Zhang, J., & Gao, J. (2023). Dynamic assessment of eco-environmental quality in Yangtze River Delta integration demonstration area based on GEE and RSEI. *Chinese Journal of Ecology*, 42(2). <https://doi.org/10.13292/j.1000-4890.202302.017>
- HEALEY, S., COHEN, W., ZHIQIANG, Y., & KRANKINA, O. (2005). Comparison of Tasseled Cap-based Landsat data structures for use in forest disturbance detection. *Remote Sensing of Environment*, 97(3), 301–310. <https://doi.org/10.1016/j.rse.2005.05.009>

- Henrys, P. A., & Jarvis, S. G. (2019). Integration of ground survey and remote sensing derived data: Producing robust indicators of habitat extent and condition. *Ecology and Evolution*, 9(14). <https://doi.org/10.1002/ece3.5376>
- Hjørland, B., & Nissen Pedersen, K. (2005). A substantive theory of classification for information retrieval. *Journal of Documentation*, 61(5), 582–597. <https://doi.org/10.1108/00220410510625804>
- Hu, X., & Xu, H. (2018). A new remote sensing index for assessing the spatial heterogeneity in urban ecological quality: A case from Fuzhou City, China. *Ecological Indicators*, 89, 11–21. <https://doi.org/10.1016/j.ecolind.2018.02.006>
- Indrawati, L., Sigit Heru Murti, B. S., & Rachmawati, R. (2020). Integrated ecological index (IEI) for urban ecological status based on remote sensing data: A study at Semarang - Indonesia. *IOP Conference Series: Earth and Environmental Science*, 500(1). <https://doi.org/10.1088/1755-1315/500/1/012074>
- Indrawati, L., Sigit Heru Murti, B. S., Rachmawati, R., & Aji, D. S. (2020a). Effect of Urban Expansion Intensity on Urban Ecological Status Utilizing Remote Sensing and GIS: A Study of Semarang-Indonesia. *IOP Conference Series: Earth and Environmental Science*, 451(1), 012018. <https://doi.org/10.1088/1755-1315/451/1/012018>
- Indrawati, L., Sigit Heru Murti, B. S., Rachmawati, R., & Aji, D. S. (2020b). Effect of Urban Expansion Intensity on Urban Ecological Status Utilizing Remote Sensing and GIS: A Study of Semarang-Indonesia. *IOP Conference Series: Earth and Environmental Science*, 451(1), 012018. <https://doi.org/10.1088/1755-1315/451/1/012018>
- Iskandar, B., Saidah, Kurnia, A. A., Jauhari, A., & Zannah, F. (2024). Modeling Land Cover Change Using MOLUSCE in Kahayan Tengah Forest Management Unit, Kalimantan Tengah. *Jurnal Sylva Lestari*, 12(2). <https://doi.org/10.23960/jsl.v12i2.865>
- Jiang, C. L., Wu, L., Liu, D., & Wang, S. M. (2019). Dynamic monitoring of eco-environmental quality in arid desert area by remote sensing: Taking the Gurbantunggut Desert China as an example. *Chinese Journal of Applied Ecology*, 30(3). <https://doi.org/10.13287/j.1001-9332.201903.008>
- Jiang, L., Liu, Y., Wu, S., & Yang, C. (2021). Analyzing ecological environment change and associated driving factors in China based on NDVI time series data. *Ecological Indicators*, 129, 107933. <https://doi.org/10.1016/j.ecolind.2021.107933>
- Jin, S., & Sader, S. A. (2005). Comparison of time series tasseled cap wetness and the normalized difference moisture index in detecting forest disturbances. *Remote Sensing of Environment*, 94(3), 364–372. <https://doi.org/10.1016/j.rse.2004.10.012>
- Jin, W., Li, H., Wang, J., Zhao, L., Li, X., Fan, W., & Chen, J. (2023). Continuous remote sensing ecological index (CRSEI): A novel approach for multitemporal monitoring of eco-environmental changes on large scale. *Ecological Indicators*, 154. <https://doi.org/10.1016/j.ecolind.2023.110739>



- Jing, Y., Zhang, F., He, Y., Kung, H. te, Johnson, V. C., & Arikena, M. (2020). Assessment of spatial and temporal variation of ecological environment quality in Ebinur Lake Wetland National Nature Reserve, Xinjiang, China. *Ecological Indicators*, 110. <https://doi.org/10.1016/j.ecolind.2019.105874>
- Juliandita, E. (2019). ANALISIS TREN KEUANGAN PERBANKAN SYARIAH TAHUN 2019 SAMPAI TAHUN 2022. *Jurnal Khazanah Ulum Ekonomi Syariah (JKUES)*, 3(1). <https://doi.org/10.56184/jkues.v3i1.64>
- Karbalaie Saleh, S., Amoushahi, S., & Gholipour, M. (2021). Spatiotemporal ecological quality assessment of metropolitan cities: a case study of central Iran. *Environmental Monitoring and Assessment*, 193(5). <https://doi.org/10.1007/s10661-021-09082-2>
- Kesuma, Z. M. (2011). Feature Selection Data Indeks Kesehatan Masyarakat Menggunakan Algoritma Relief-F. *Statistika*, 11(1).
- Kotikot, S. M., Flores, A., Griffin, R. E., Nyaga, J., Case, J. L., Mugo, R., Sedah, A., Adams, E., Limaye, A., & Irwin, D. E. (2020). Statistical characterization of frost zones: Case of tea freeze damage in the Kenyan highlands. *International Journal of Applied Earth Observation and Geoinformation*, 84, 101971. <https://doi.org/10.1016/j.jag.2019.101971>
- Kotikot, S. M., Flores, A., Griffin, R. E., Sedah, A., Nyaga, J., Mugo, R., Limaye, A., & Irwin, D. E. (2018). Mapping threats to agriculture in East Africa: Performance of MODIS derived LST for frost identification in Kenya's tea plantations. *International Journal of Applied Earth Observation and Geoinformation*, 72, 131–139. <https://doi.org/10.1016/j.jag.2018.05.009>
- Kusniawati, I., Subiyanto, S., & Amarrohman, F. J. (2020). Analisis Model Perubahan Penggunaan Lahan Menggunakan Artificial Neural Network di Kota Salatiga. *Jurnal Geodesi Undip*, 9(1).
- Kustiwan, I., & Ladimananda, A. (2012). Pemodelan Dinamika Perkembangan Perkotaan dan Daya Dukung Lahan di Kawasan Cekungan Bandung. *Tataloka*, 14(2).
- Lestiani, D. D., Santoso, M., Kurniawati, S., & Markwitz, A. (2013). CHARACTERISTIC OF AIRBORNE PARTICULATE MATTER SAMPLES COLLECTED FROM TWO SEMI INDUSTRIAL SITES IN BANDUNG, INDONESIA. *Indonesian Journal of Chemistry*, 13(3), 271–277. <https://doi.org/10.22146/ijc.21287>
- Li, J., Pei, Y., Zhao, S., Xiao, R., Sang, X., & Zhang, C. (2020). A review of remote sensing for environmental monitoring in China. In *Remote Sensing* (Vol. 12, Issue 7). <https://doi.org/10.3390/rs12071130>
- Li, Q., Wang, Z., Qui, J., Yang, G., Yang, Y., & Liang, G. (2018). Study on the classification of ecological environmental quality index RSEI in Aksu city based on TM data. *Tianjin Agriculture Science*, 24, 63–67.
- Li, X. M., Sun, C. J., Sun, J. L., Chen, W., & Li, X. G. (2021). Ecological security characteristics of main irrigated agricultural areas on the Loess Plateau based on remote sensing information. *Chinese Journal of Applied Ecology*, 32(9). <https://doi.org/10.13287/j.1001-9332.202109.012>
- Li, X., Sha, J., & Meng, X. (2010). Identification the spatial threshold of ecological indicator NDVI by application of optimal dividing algorithm for ordinal.

- Proceedings - 2010 6th International Conference on Natural Computation, ICNC 2010*, 8. <https://doi.org/10.1109/ICNC.2010.5583497>
- Li, Y., Cao, Z., Long, H., Liu, Y., & Li, W. (2017). Dynamic analysis of ecological environment combined with land cover and NDVI changes and implications for sustainable urban–rural development: The case of Mu Us Sandy Land, China. *Journal of Cleaner Production*, 142, 697–715. <https://doi.org/10.1016/j.jclepro.2016.09.011>
- Liu, C., Yang, M., Hou, Y., Zhao, Y., & Xue, X. (2021). Spatiotemporal evolution of island ecological quality under different urban densities: A comparative analysis of Xiamen and Kinmen Islands, southeast China. *Ecological Indicators*, 124. <https://doi.org/10.1016/j.ecolind.2021.107438>
- Liu, Y., Xu, W., Hong, Z., Wang, L., Ou, G., Lu, N., & Dai, Q. (2023). Integrating three-dimensional greenness into RSEI improved the scientificity of ecological environment quality assessment for forest. *Ecological Indicators*, 156. <https://doi.org/10.1016/j.ecolind.2023.111092>
- Liu, Y., Yue, H., Meng, J., Zhang, F., & Cui, Q. (2018). Ecological environment assessment for the main cities along the Silk Road Economic Belt (China section) based on remote sensing. *Tech Environment*, 30, 35–39.
- Lu, D., Li, G., & Moran, E. (2014). Current situation and needs of change detection techniques. *International Journal of Image and Data Fusion*, 5(1), 13–38. <https://doi.org/10.1080/19479832.2013.868372>
- Lv, Y., Xiu, L., Yao, X., Yu, Z., & Huang, X. (2023). Spatiotemporal evolution and driving factors analysis of the eco-quality in the Lanxi urban agglomeration. *Ecological Indicators*, 156, 111114. <https://doi.org/10.1016/j.ecolind.2023.111114>
- Malti, T., Beelmann, A., Noam, G. G., Sommer, S., Francis, I., Leeman, J., Sandelowski, M., Birken, S. A., Bunker, A. C., Powell, B. J., Turner, K., Clary, A. S., Klamann, S. L., Yu, Y., Whitaker, D. J., Self, S. R., Rostad, W. L., Chatham, J. R. S., Kirk, M. A., ... Rosenbloom, D. L. 2. (2017). Health Policy: Application for Nurses and Other Healthcare Professionals. *Journal of Clinical Nursing*, 33(1).
- Marlina, D. (2022). KLASIFIKASI TUTUPAN LAHAN PADA CITRA SENTINEL-2 KABUPATEN KUNINGAN DENGAN NDVI DAN ALGORITMA RANDOM FOREST. *STRING (Satuan Tulisan Riset Dan Inovasi Teknologi)*, 7(1).
- Marzluff, J. M., Schulenberger, E., Endlicher, W., Alberti, M., Bradley, G., Ryan, C., ZumBrunnen, C., & Simon, U. (2008). Urban Ecology. An international perspective on the interaction between humans and nature. In *Urban Ecology: An International Perspective on the Interaction Between Humans and Nature*.
- Mas, J.-F. (1999). Monitoring land-cover changes: A comparison of change detection techniques. *International Journal of Remote Sensing*, 20(1), 139–152. <https://doi.org/10.1080/014311699213659>
- Masek, J. G., Vermote, E. F., Saleous, N. E., Wolfe, R., Hall, F. G., Huemmrich, K. F., Gao, F., Kutler, J., & Lim, T.-K. (2006). A Landsat Surface Reflectance Dataset for North America, 1990–2000. *IEEE Geoscience and Remote Sensing Letters*, 3(1), 68–72. <https://doi.org/10.1109/LGRS.2005.857030>

- McDonnell, M. J., & MacGregor-Fors, I. (2016). The ecological future of cities. *Science*, 352(6288), 936–938. <https://doi.org/10.1126/science.aaf3630>
- Mishra, P., Pandey, C., Singh, U., Keshri, A., & Sabaretnam, M. (2019). Selection of appropriate statistical methods for data analysis. *Annals of Cardiac Anaesthesia*, 22(3). [https://doi.org/10.4103/aca.ACA\\_248\\_18](https://doi.org/10.4103/aca.ACA_248_18)
- Mitnik, S., Semmler, W., & Haider, A. (2020). Climate disaster risks—empirics and a multi-phase dynamic model. *Econometrics*, 8(3). <https://doi.org/10.3390/econometrics8030033>
- Muhammad, R., Zhang, W., Abbas, Z., Guo, F., & Gwiazdzinski, L. (2022). Spatiotemporal Change Analysis and Prediction of Future Land Use and Land Cover Changes Using QGIS MOLUSCE Plugin and Remote Sensing Big Data: A Case Study of Linyi, China. *Land*, 11(3), 419. <https://doi.org/10.3390/land11030419>
- Nabila, D. A. (2023). Pemodelan prediksi dan kesesuaian perubahan penggunaan lahan menggunakan Cellular Automata-Artificial Neural Network (CA-ANN). *Tunas Agraria*, 6(1). <https://doi.org/10.31292/jta.v6i1.203>
- Nie, X., Hu, Z., Zhu, Q., & Ruan, M. (2021). Research on temporal and spatial resolution and the driving forces of ecological environment quality in coal mining areas considering topographic correction. *Remote Sensing*, 13(14). <https://doi.org/10.3390/rs13142815>
- Niu, X., & Li, Y. (2020). REMOTE SENSING EVALUATION OF ECOLOGICAL ENVIRONMENT OF ANQING CITY BASED ON REMOTE SENSING ECOLOGICAL INDEX. *The International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences*, XLIII-B3-2020, 733–737. <https://doi.org/10.5194/isprs-archives-XLIII-B3-2020-733-2020>
- Nurwatik, N., Ummah, M. H., Cahyono, A. B., Darminto, M. R., & Hong, J.-H. (2022). A Comparison Study of Landslide Susceptibility Spatial Modeling Using Machine Learning. *ISPRS International Journal of Geo-Information*, 11(12), 602. <https://doi.org/10.3390/ijgi11120602>
- Obuchowski, N. A., Blackmore, C. C., Karlik, S., & Reinhold, C. (2005). Fundamentals of clinical research for radiologists. *American Journal of Roentgenology*, 184(2). <https://doi.org/10.2214/ajr.184.2.01840364>
- Ochtyra, A., Marcinkowska-Ochtyra, A., & Raczko, E. (2020). Threshold- and trend-based vegetation change monitoring algorithm based on the inter-annual multi-temporal normalized difference moisture index series: A case study of the Tatra Mountains. *Remote Sensing of Environment*, 249. <https://doi.org/10.1016/j.rse.2020.112026>
- Otukey, J. R., & Blaschke, T. (2010). Land cover change assessment using decision trees, support vector machines and maximum likelihood classification algorithms. *International Journal of Applied Earth Observation and Geoinformation*, 12, S27–S31. <https://doi.org/10.1016/j.jag.2009.11.002>
- Palapa, Tommy Martho Maramis, & Alfonds Andrew. (2014). Pemantauan Melalui Observasi Lapang, Pencitraan Satelit, dan SIG Tambang Talawaan-Tatelu. *Prosiding Seminar Nasional Sains Dan Pendidikan Sains IX 2014*, 594–601.



- Peng, L., Zhang, J., Liang, E., & Hu, M. (2017). Evaluation of natural ecological environment change in Manasi River Basin based on RSEI. *Journal of Shihezi University Natural Science*, 35, 506–512.
- Priyadi, P., Sediyo, E., & Prasetyo, S. Y. J. (2020). Penataan Ruang Kawasan Agropolitan di Kabupaten Semarang dengan Metode Artificial Neural Network. *Jurnal Transformatika*, 17(2). <https://doi.org/10.26623/transformatika.v17i2.1615>
- Qureshi, S., Alavipanah, S. K., Konyushkova, M., Mijani, N., Fathololomi, S., Firozjaei, M. K., Homae, M., Hamzeh, S., & Kakroodi, A. A. (2020). A remotely sensed assessment of surface ecological change over the Gomishan Wetland, Iran. *Remote Sensing*, 12(18). <https://doi.org/10.3390/RS12182989>
- Raharja, B. (2023). Pemetaan Litologi Menggunakan Data Citra Multispektral Perbandingan antara Citra ASTER, Landsat 8 dan Sentinel-2. *Jurnal Geologi Dan Sumberdaya Mineral*, 24(4). <https://doi.org/10.33332/jgsm.geologi.v24i4.797>
- Rahman, M. T. U., & Esha, E. J. (2022). Prediction of land cover change based on CA-ANN model to assess its local impacts on Bagerhat, southwestern coastal Bangladesh. *Geocarto International*, 37(9), 2604–2626. <https://doi.org/10.1080/10106049.2020.1831621>
- Rahman, M. T. U., Tabassum, F., Rasheduzzaman, M., Saba, H., Sarkar, L., Ferdous, J., Uddin, S. Z., & Zahedul Islam, A. Z. M. (2017). Temporal dynamics of land use/land cover change and its prediction using CA-ANN model for southwestern coastal Bangladesh. *Environmental Monitoring and Assessment*, 189(11), 1–18. <https://doi.org/10.1007/S10661-017-6272-0/FIGURES/12>
- Ramadan, G. F., & Hidayati, I. N. (2022). Prediction and Simulation of Land Use and Land Cover Changes Using Open Source QGIS. A Case Study of Purwokerto, Central Java, Indonesia. *Indonesian Journal of Geography*, 54(3). <https://doi.org/10.22146/IJG.68702>
- Rossi, M., Guzzetti, F., Reichenbach, P., Mondini, A. C., & Peruccacci, S. (2010). Optimal landslide susceptibility zonation based on multiple forecasts. *Geomorphology*, 114(3). <https://doi.org/10.1016/j.geomorph.2009.06.020>
- Saputra, M. H., & Lee, H. S. (2019). Prediction of Land Use and Land Cover Changes for North Sumatra, Indonesia, Using an Artificial-Neural-Network-Based Cellular Automaton. *Sustainability* 2019, Vol. 11, Page 3024, 11(11), 3024. <https://doi.org/10.3390/SU11113024>
- Sasmito, B., & Suprayogi, A. (2017). Kajian Kerentanan Ekosistem Pesisir Kabupaten Demak Berdasar Perubahan Garis Pantai dengan Teknologi Penginderaan Jauh dan Sistem Informasi Geografis. *Teknik*, 38(1). <https://doi.org/10.14710/teknik.v38i1.12181>
- Seddon, A. W. R., Macias-Fauria, M., Long, P. R., Benz, D., & Willis, K. J. (2016). Sensitivity of global terrestrial ecosystems to climate variability. *Nature*, 531(7593), 229–232. <https://doi.org/10.1038/nature16986>
- Sejati, A. W., Buchori, I., & Rudiarto, I. (2018). The Impact of Urbanization to Forest Degradation in Metropolitan Semarang: A Preliminary Study. *IOP*

- Conference Series: Earth and Environmental Science*, 123, 012011. <https://doi.org/10.1088/1755-1315/123/1/012011>
- Sheskin, D. J. (2020). *Handbook of Parametric and Nonparametric Statistical Procedures*. Chapman and Hall/CRC. <https://doi.org/10.1201/9780429186196>
- Shi, L. N., X. D. Z., & Han, F. (2010). Application and Development Prospect of Remote Sensing Technology in Environment Monitoring. *Guizhou Agricultural Sciences*, 01, 175–178.
- Shi, T. T., Xu, H. Q., & Tang, F. (2017). Built-up land change and its impact on ecological quality in a fast-growing economic zone: Jinjiang County, Fujian Province, China. *Chinese Journal of Applied Ecology*, 28(4). <https://doi.org/10.13287/j.1001-9332.201704.014>
- Shiyuan, W., Xuexia, Z., Tong, Z., Wei, Y., & Jingyao, Z. (2016). Assessment of ecological environment quality in the Changbai Mountain Nature Reserve based on remote sensing technology. *Prigress in Geography*, 35(10), 1269–1278. <https://doi.org/10.18306/dlkxjz.2016.10.010>
- Song, H. M., & Xue, L. (2016). Dynamic monitoring and analysis of ecological environment in Weinan City, Northwest China based on RSEI model. *Chinese Journal of Applied Ecology*, 27(12). <https://doi.org/10.13287/j.1001-9332.201612.024>
- Song, Y., Wang, J., Ge, Y., & Xu, C. (2020). An optimal parameters-based geographical detector model enhances geographic characteristics of explanatory variables for spatial heterogeneity analysis: cases with different types of spatial data. *GIScience & Remote Sensing*, 57(5), 593–610. <https://doi.org/10.1080/15481603.2020.1760434>
- Soubry, I., Doan, T., Chu, T., & Guo, X. (2021). A systematic review on the integration of remote sensing and gis to forest and grassland ecosystem health attributes, indicators, and measures. In *Remote Sensing* (Vol. 13, Issue 16). <https://doi.org/10.3390/rs13163262>
- Storey, J., Choate, M., & Moe, D. (2014). Landsat 8 Thermal Infrared Sensor Geometric Characterization and Calibration. *Remote Sensing*, 6(11), 11153–11181. <https://doi.org/10.3390/rs6111153>
- Susilo, B. (2011). PEMODELAN SPASIAL PROBABILISTIK INTEGRASI MARKOV CHAIN DAN CELLULAR AUTOMATA UNTUK KAJIAN PERUBAHAN PENGGUNAAN LAHAN SKALA REGIONAL DI PROVINSI DAERAH ISTIMEWA YOGYAKARTA. *Jurnal Geografi Gea*, 11(2). <https://doi.org/10.17509/GEA.V11I2.1638>
- Tahiri, M., Mohsine, I., Bouramtane, T., Bahi, H., Malah, A., Sabri, A., & Kacimi, I. (2023). Spatio-Temporal Analysis of the Remote Sensing Ecological Index – A Case Study of the Favorable Agro-Ecological Zone in Northwest Morocco. *Ecological Engineering and Environmental Technology*, 24(7). <https://doi.org/10.12912/27197050/169570>
- Teixeira Pinto, C., Jing, X., & Leigh, L. (2020). Evaluation Analysis of Landsat Level-1 and Level-2 Data Products Using In Situ Measurements. *Remote Sensing*, 12(16), 2597. <https://doi.org/10.3390/rs12162597>

- Tsangaratos, P., & Ilia, I. (2016). Landslide susceptibility mapping using a modified decision tree classifier in the Xanthi Perfection, Greece. *Landslides*, 13(2). <https://doi.org/10.1007/s10346-015-0565-6>
- Ulfah Rafsenja, Laode Muh. Golok Jaya, Sawaludin Sawaludin, & Saban Rahim. (2020). Analisis Perbandingan Citra Landsat 8 dan Citra Sentinel 2-A untuk Mengidentifikasi Sebaran Mangrove. *Jurnal Geografi Aplikasi Dan Terapan (JAGAT)*, 4(01).
- Vermote, E. F., Tanre, D., Deuze, J. L., Herman, M., & Morcette, J.-J. (1997). Second Simulation of the Satellite Signal in the Solar Spectrum, 6S: an overview. *IEEE Transactions on Geoscience and Remote Sensing*, 35(3), 675–686. <https://doi.org/10.1109/36.581987>
- Vermote, E., Justice, C., Claverie, M., & Franch, B. (2016). Preliminary analysis of the performance of the Landsat 8/OLI land surface reflectance product. *Remote Sensing of Environment*, 185, 46–56. <https://doi.org/10.1016/j.rse.2016.04.008>
- Vermote, E., Roger, J. C., Franch, B., & Skakun, S. (2018). LaSRC (Land Surface Reflectance Code): Overview, application and validation using MODIS, VIIRS, LANDSAT and Sentinel 2 data's. *IGARSS 2018 - 2018 IEEE International Geoscience and Remote Sensing Symposium*, 8173–8176. <https://doi.org/10.1109/IGARSS.2018.8517622>
- Wang, H., Liu, D., Lin, H., Montenegro, A., & Zhu, X. (2015). NDVI and vegetation phenology dynamics under the influence of sunshine duration on the Tibetan plateau. *International Journal of Climatology*, 35(5). <https://doi.org/10.1002/joc.4013>
- Wang, J., Li, X., Christakos, G., Liao, Y., Zhang, T., Gu, X., & Zheng, X. (2010). Geographical Detectors-Based Health Risk Assessment and its Application in the Neural Tube Defects Study of the Heshun Region, China. *International Journal of Geographical Information Science*, 24(1), 107–127. <https://doi.org/10.1080/13658810802443457>
- Wang, J., Ma, J. L., Xie, F. F., & Xu, X. J. (2020). [Improvement of remote sensing ecological index in arid regions: Taking Ulan Buh Desert as an example]. *Ying Yong Sheng Tai Xue Bao = The Journal of Applied Ecology*, 31(11), 3795–3804. <https://doi.org/10.13287/J.1001-9332.202011.011>
- Wang, J., & Xu, C. (2017). Geodetector: Principle and prospective. *Wang, J.; Xu, C. Geodetector: Principle and Prospective. Acta Geogr. Sin.* 2017, 72, 116–134, 72, 116–134.
- Wang, J.-F., & Hu, Y. (2012). Environmental health risk detection with GeogDetector. *Environmental Modelling & Software*, 33, 114–115. <https://doi.org/10.1016/j.envsoft.2012.01.015>
- Wang, J.-F., Zhang, T.-L., & Fu, B.-J. (2016). A measure of spatial stratified heterogeneity. *Ecological Indicators*, 67, 250–256. <https://doi.org/10.1016/j.ecolind.2016.02.052>
- Wang, M. Y., & Xu, H. Q. (2018). Temporal and spatial changes of urban impervious surface and its influence on urban ecological quality: A comparison between Shanghai and New York. *Chinese Journal of Applied Ecology*, 29(11). <https://doi.org/10.13287/j.1001-9332.201811.018>

- Wang, Z., Chen, T., Zhu, D., Jia, K., & Plaza, A. (2023). RSEIFE: A new remote sensing ecological index for simulating the land surface eco-environment. *Journal of Environmental Management*, 326, 116851. <https://doi.org/10.1016/J.JENVMAN.2022.116851>
- Wen, X. Le, Lin, Z. F., & Tang, F. (2015). Remote sensing analysis of ecological change caused by construction of the new island city: Pingtan Comprehensive Experimental Zone, Fujian Province. *Chinese Journal of Applied Ecology*, 26(2).
- Willis, K. S. (2015). Remote sensing change detection for ecological monitoring in United States protected areas. *Biological Conservation*, 182, 233–242. <https://doi.org/10.1016/j.biocon.2014.12.006>
- Xing, H., Zhu, L., Chen, B., Liu, C., Niu, J., Li, X., Feng, Y., & Fang, W. (2022). A comparative study of threshold selection methods for change detection from very high-resolution remote sensing images. *Earth Science Informatics*, 15(1). <https://doi.org/10.1007/s12145-021-00734-y>
- Xiong, Q., Hong, Q., & Chen, W. (2024). Temporal and Spatial Response of Ecological Environmental Quality to Land Use Transfer in Nanling Mountain Region, China Based on RSEI: A Case Study of Longnan City. *Land*, 13(5), 675. <https://doi.org/10.3390/land13050675>
- Xu, D., & Guo, X. (2015). Some insights on grassland health assessment based on remote sensing. In *Sensors (Switzerland)* (Vol. 15, Issue 2). <https://doi.org/10.3390/s150203070>
- Xu, H., Ding, F., & Wen, X. (2009). Urban Expansion and Heat Island Dynamics in the Quanzhou Region, China. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, 2(2), 74–79. <https://doi.org/10.1109/JSTARS.2009.2023088>
- Xu, H. Q. (2013). A remote sensing index for assessment of regional ecological changes. *Zhongguo Huanjing Kexue/China Environmental Science*, 33(5).
- Xu, H. Q., & Zhang, H. (2015). Ecological response to urban expansion in an island city: Xiamen, southeastern China. *SCIENTIA GEOGRAPHICA SINICA*, 5, 867–872.
- Xu, H., Wang, M., Shi, T., Guan, H., Fang, C., & Lin, Z. (2018a). Prediction of ecological effects of potential population and impervious surface increases using a remote sensing based ecological index (RSEI). *Ecological Indicators*, 93, 730–740. <https://doi.org/10.1016/j.ecolind.2018.05.055>
- Xu, H., Wang, M., Shi, T., Guan, H., Fang, C., & Lin, Z. (2018b). Prediction of ecological effects of potential population and impervious surface increases using a remote sensing based ecological index (RSEI). *Ecological Indicators*, 93, 730–740. <https://doi.org/10.1016/j.ecolind.2018.05.055>
- Xu, H., Wang, Y., Guan, H., Shi, T., & Hu, X. (2019). Detecting Ecological Changes with a Remote Sensing Based Ecological Index (RSEI) Produced Time Series and Change Vector Analysis. *Remote Sensing 2019, Vol. 11, Page 2345*, 11(20), 2345. <https://doi.org/10.3390/RS11202345>
- Xu, H., & Zhang, T. (2013). Assessment of consistency in forest-dominated vegetation observations between ASTER and Landsat ETM+ images in

- subtropical coastal areas of southeastern China. *Agricultural and Forest Meteorology*, 168. <https://doi.org/10.1016/j.agrformet.2012.08.012>
- Xu Hanqiu. (2013). A remote sensing urban ecological index and its application. *Acta Ecol*, 7853–7862.
- Yang, H., Yu, J., Xu, W., Wu, Y., Lei, X., Ye, J., Geng, J., & Ding, Z. (2023). Long-time series ecological environment quality monitoring and cause analysis in the Dianchi Lake Basin, China. *Ecological Indicators*, 148, 110084. <https://doi.org/10.1016/j.ecolind.2023.110084>
- Yang, H.-T., & Xu, H.-Q. (2020). Assessing fractional vegetation cover changes and ecological quality of the Wuyi Mountain National Nature Reserve based on remote sensing spatial information. *Ying Yong Sheng Tai Xue Bao = The Journal of Applied Ecology*, 31(2).
- Yang, S., & Su, H. (2023). Evaluation of Urban Ecological Environment Quality Based on Google Earth Engine: A Case Study in Xi'an, China. *Polish Journal of Environmental Studies*, 32(1), 927–942. <https://doi.org/10.15244/pjoes/152448>
- Yu, G., Liu, T., Wang, Q., Li, T., Li, X., Song, G., & Feng, Y. (2022a). Impact of Land Use/Land Cover Change on Ecological Quality during Urbanization in the Lower Yellow River Basin: A Case Study of Jinan City. *Remote Sensing*, 14(24), 6273. <https://doi.org/10.3390/rs14246273>
- Yu, G., Liu, T., Wang, Q., Li, T., Li, X., Song, G., & Feng, Y. (2022b). Impact of Land Use/Land Cover Change on Ecological Quality during Urbanization in the Lower Yellow River Basin: A Case Study of Jinan City. *Remote Sensing*, 14(24), 6273. <https://doi.org/10.3390/rs14246273>
- Yuan, B., Fu, L., Zou, Y., Zhang, S., Chen, X., Li, F., Deng, Z., & Xie, Y. (2021). Spatiotemporal change detection of ecological quality and the associated affecting factors in Dongting Lake Basin, based on RSEI. *Journal of Cleaner Production*, 302, 126995. <https://doi.org/10.1016/j.jclepro.2021.126995>
- Yue, H., Liu, Y., Li, Y., & Lu, Y. (2019). Eco-environmental quality assessment in china's 35 major cities based on remote sensing ecological index. *IEEE Access*, 7. <https://doi.org/10.1109/ACCESS.2019.2911627>
- Zandalinas, S. I., Fritschi, F. B., & Mittler, R. (2021). Global Warming, Climate Change, and Environmental Pollution: Recipe for a Multifactorial Stress Combination Disaster. In *Trends in Plant Science* (Vol. 26, Issue 6). <https://doi.org/10.1016/j.tplants.2021.02.011>
- Zhang, H., Du, P. J., Luo, J. Q., & Li, E. Z. (2017). A RSEI-based analysis on the ecological changes of Nanjing city. *Geospatial Information*, 15, 58–62.
- Zhang, J., Yang, G., Yang, L., Li, Z., Gao, M., Yu, C., Gong, E., Long, H., & Hu, H. (2022a). Dynamic Monitoring of Environmental Quality in the Loess Plateau from 2000 to 2020 Using the Google Earth Engine Platform and the Remote Sensing Ecological Index. *Remote Sensing*, 14(20), 5094. <https://doi.org/10.3390/rs14205094>
- Zhang, J., Yang, G., Yang, L., Li, Z., Gao, M., Yu, C., Gong, E., Long, H., & Hu, H. (2022b). Dynamic Monitoring of Environmental Quality in the Loess Plateau from 2000 to 2020 Using the Google Earth Engine Platform and the



- Remote Sensing Ecological Index. *Remote Sensing*, 14(20), 5094. <https://doi.org/10.3390/rs14205094>
- Zhang, S., Zhou, Y., Yu, Y., Li, F., Zhang, R., & Li, W. (2022). Using the Geodetector Method to Characterize the Spatiotemporal Dynamics of Vegetation and Its Interaction with Environmental Factors in the Qinba Mountains, China. *Remote Sensing*, 14(22), 5794. <https://doi.org/10.3390/rs14225794>
- Zhang, T., Yang, R., Yang, Y., Li, L., & Chen, L. (2021). Assessing the Urban Eco-Environmental Quality by the Remote-Sensing Ecological Index: Application to Tianjin, North China. *ISPRS International Journal of Geo-Information*, 10(7), 475. <https://doi.org/10.3390/ijgi10070475>
- Zhao Qiguo, Huang Guoqin, & Ma Yanqin. (2016). The ecological environment conditions and construction of an ecological civilization in China. *Acta Ecologica Sinica*, 36(19). <https://doi.org/10.5846/stxb201410081968>
- Zhou, J., & Liu, W. (2022). Monitoring and Evaluation of Eco-Environment Quality Based on Remote Sensing-Based Ecological Index (RSEI) in Taihu Lake Basin, China. *Sustainability*, 14(9), 5642. <https://doi.org/10.3390/su14095642>
- Zhou, M., & Yang, Y. (2018). Evaluation of ecological situation in Dongguan City based on remote sensing. *Guangdong Agricultural Sciences*, 45, 126–134.
- Zhu, D., Chen, T., Wang, Z., & Niu, R. (2021). Detecting ecological spatial-temporal changes by Remote Sensing Ecological Index with local adaptability. *Journal of Environmental Management*, 299, 113655. <https://doi.org/10.1016/j.jenvman.2021.113655>
- Zhu, H., Wang, J. L., Cheng, F., Deng, H., Zhang, E. W., & Li, Y. X. (2020). [Monitoring and evaluation of eco-environmental quality of lake basin regions in Central Yunnan Province, China]. *Ying Yong Sheng Tai Xue Bao = The Journal of Applied Ecology*, 31(4), 1289–1297. <https://doi.org/10.13287/J.1001-9332.202004.011>
- Zhuang, Q., Wu, S., Yan, Y., Niu, Y., Yang, F., & Xie, C. (2020). Monitoring land surface thermal environments under the background of landscape patterns in arid regions: A case study in Aksu river basin. *Science of The Total Environment*, 710, 136336. <https://doi.org/10.1016/j.scitotenv.2019.136336>