

## DAFTAR PUSTAKA

- Azizah, M., Subiyanto, A., Triutomo, S., & Wahyuni, D. (2022). Pengaruh Perubahan Iklim Terhadap Bencana Hidrometeorologi di Kecamatan Cisarua - Kabupaten Bogor. *PENDIPA Journal of Science Education*, 6(2), 541–546. <https://doi.org/10.33369/pendipa.6.2.541-546>
- Ardha, M., Chulafak, G. A., Anggraini, N., Syetiawan, A., & Khomarudin, M. R. (2024). Flood Inundation Prediction Model Related to Land Subsidence with Lidar in North Coastal Jakarta. *National Rerearch and Inovation Agency*
- Billah, M., Islam, A. K. M. S., Mamoon, W. Bin, & Rahman, M. R. (2023). Random forest classifications for landuse mapping to assess rapid flood damage using Sentinel-1 and Sentinel-2 data. *Remote Sensing Applications: Society and Environment*, 30(June 2022), 100947. <https://doi.org/10.1016/j.rsase.2023.100947>
- BNPB. (2024). Banjir Bandang di Kabupaten Demak, Upaya Evakuasi Terhambat Arus Deras. <https://bnpb.go.id/berita/banjir-bandang-di-kabupaten-demak-upaya-evakuasi-terhambat-arus-deras>. [Diakses pada 20 Agustus 2024]
- BNPB. (2024). Buletin Info Bencana Februari 2024. *Pusat Data Informasi Dan Komunikasi Kebencanaan*, 5(2), 2. <https://bnpb.go.id/informasi-bencana/buletin-info-bencana-februari-2024>
- BSN. (2010). SNI 7645-2010 Klasifikasi penutup lahan - skala 1:250.000, Badan Standarisasi Nasional
- Budiyono, Y., Aerts, J. C. J. H., Tollenaar, D., & Ward, P. J. (2016). River flood risk in Jakarta under scenarios of future change. *Natural Hazards and Earth System Sciences*, 16(3), 757–774. <https://doi.org/10.5194/nhess-16-757-2016>
- Campbell, J. B., & Wynne, R. H. (2011). Introduction to Remote Sensing, Fifth Edition (5<sup>th</sup> ed.). New York: Guilford Publications
- CCRS. (2015). Fundametals of Remote sensing. In Canada Centre for Remote Sensing. Canada Centre for Remote Sensing ([nrcan.gc.ca](http://nrcan.gc.ca)). [Diakses pada 7 Mei 2024]
- Chan, Y. K., & Koo, V. C. (2008). An introduction to Synthetic Aperture Radar (SAR). *Progress In Electromagnetics Research B*, 2, 27–60. <https://doi.org/10.2528/pierb07110101>
- Chang, K. (2019). Introduction to Geographic Information System, Ninth Edition (9<sup>th</sup> ed.). New York: McGraw-Hill Education
- Chen, F., Zhang, M., Zhao, H., Guan, W., & Yang, A. (2024). Pakistan's 2022 floods: Spatial distribution, causes and future trends from Sentinel-1 SAR observations. *Remote Sensing of Environment*, 304(December 2023), 114055. <https://doi.org/10.1016/j.rse.2024.114055>
- DeVries, B., Huang, C., Armston, J., Huang, W., Jones, J. W., & Lang, M. W. (2020). Rapid and robust monitoring of flood events using Sentinel-1 and Landsat data on the

- Google Earth Engine. *Remote Sensing of Environment*, 240(August 2019), 111664.  
<https://doi.org/10.1016/j.rse.2020.111664>
- ESA. (2015). SAR Sentinel-1 User Guides Introduction. User Guides - Sentinel Online - Sentinel Online (esa.int). [Diakses pada 7 Mei 2024]
- Ezzine, A., Saidi, S., Hermassi, T., Kammessi, I., Darragi, F., & Rajhi, H. (2020). Flood mapping using hydraulic modeling and Sentinel-1 image: Case study of Medjerda Basin, northern Tunisia. *Egyptian Journal of Remote Sensing and Space Science*, 23(3), 303–310. <https://doi.org/10.1016/j.ejrs.2020.03.001>
- GEE. (2023). Compositing, Masking, and Mosaicking. [https://developers.google.com/earth-engine/tutorials/tutorial\\_api\\_05](https://developers.google.com/earth-engine/tutorials/tutorial_api_05). [Diakses pada 24 September 2024]
- Hidayat, D. (2008). Kesiapsiagaan Masyarakat: Paradigma Baru Pengelolaan Bencana Alam (Community Preparedness: New Paradigm in Natural Disaster Management). *Jurnal Kependudukan Indonesia*, 3(1), 69–84.  
<http://ejurnal.kependudukan.lipi.go.id/index.php/jki/article/view/164>
- Jin, Z., Shang, J., Zhu, Q., Ling, C., Xie, W., & Qiang, B. (2020). RFRSF: Employee Turnover Prediction Based on Random Forests and Survival Analysis. *Lecture Notes in Computer Science (Including Subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)*, 12343 LNCS, 503–515. [https://doi.org/10.1007/978-3-030-62008-0\\_35](https://doi.org/10.1007/978-3-030-62008-0_35)
- Konapala, G., Kumar, S. V., & Khalique Ahmad, S. (2021). Exploring Sentinel-1 and Sentinel-2 diversity for flood inundation mapping using deep learning. *ISPRS Journal of Photogrammetry and Remote Sensing*, 180(August), 163–173.  
<https://doi.org/10.1016/j.isprsjprs.2021.08.016>
- Liang, J., & Liu, D. (2020). A local thresholding approach to flood water delineation using Sentinel-1 SAR imagery. *ISPRS Journal of Photogrammetry and Remote Sensing*, 159(October 2019), 53–62. <https://doi.org/10.1016/j.isprsjprs.2019.10.017>
- Lubin, A., & Saleem, A. (2019). Remote sensing-based mapping of the destruction to Aleppo during the Syrian Civil War between 2011 and 2017. *Applied Geography*, 108(March), 30–38. <https://doi.org/10.1016/j.apgeog.2019.05.004>
- Martinis, S., Groth, S., Wieland, M., Knopp, L., & Rättich, M. (2022). Towards a global seasonal and permanent reference water product from Sentinel-1/2 data for improved flood mapping. *Remote Sensing of Environment*, 278(May).  
<https://doi.org/10.1016/j.rse.2022.113077>
- Mayer, T., Poortinga, A., Bhandari, B., Nicolau, A. P., Markert, K., Thwal, N. S., Markert, A., Haag, A., Kilbride, J., Chishtie, F., Wadhwa, A., Clinton, N., & Saah, D. (2021). Deep learning approach for Sentinel-1 surface water mapping leveraging Google Earth Engine. *ISPRS Open Journal of Photogrammetry and Remote Sensing*, 2(September), 100005. <https://doi.org/10.1016/j.ophoto.2021.100005>
- Nain, S. S., Kumar, S., Garg, D. (2018). Performance evaluation of the WEDM process of aeronatics super alloy. *Materials and Manufacturing Processes*.

<https://doi.org/10.1080/10426914.2018.1476761>

- Nugroho, S. P. (2002). Evaluasi Dan Analisis Curah Hujan Sebagai Faktor Penyebab Bencana Banjir Jakarta. *Jurnal Sains & Teknologi Modifikasi Cuaca*, 3(2), 91–97
- Prabandaru, A. A., Marko, K., & Tambunan, M. P. (2021). Estimation of flash flood loss level in Banjaririgasi Village, Lebakgedong Sub-district, Lebak Regency, Banten. *IOP Conference Series: Earth and Environmental Science*, 846(1).  
<https://doi.org/10.1088/1755-1315/846/1/012027>
- Pranadiarso, T., Hidayah, E., & Halik, G. (2022). Pemetaan Cepat Genangan Banjir Menggunakan Teknologi Remote Sensing. *Rekayasa Sipil*, 16(2), 132–141.  
<https://doi.org/10.21776/ub.rekayasisipil.2022.016.02.9>
- Purnomo, E. U., & Ramadhany, S. A. (2023). Analisis Tingkat Kerawanan Bencana Alam di Kabupaten Demak. *Sains And Engineering National Seminat 8, Vol. 8 No. 1 (2023): SENS 8*. <https://conference.upgris.ac.id/index.php/sens/article/view/4975>
- Putra, D. B., Suprayogi, A., & Sudarsono, B. (2019). Analisis Kerawanan Banjir pada Kawasan Terbangun Berdasarkan Klasifikasi Indeks EBBI (Enhanced Built-Up and Bareness Index) Menggunakan SIG (Studi Kasus di Kabupaten Demak). *Jurnal Geodesi Undip*, 8(1), 93–102
- Rahardjo, P. N. (2018). 7 Penyebab Banjir Di Wilayah Perkotaan Yang Padat Penduduknya. *Jurnal Air Indonesia*, 7(2). <https://doi.org/10.29122/jai.v7i2.2421>
- Rokhmah, M. (2012). Potensi dan Kendala Kebijakan Perlindungan Lahan Pertanian Pangan Berkelanjutan di Kabupaten Demak. *Biro Penerbit Planologi Undip, Volume 8 (2): 157-166 Juni 2012*
- Sampurno, R., & Thoriq, A. (2016). Klasifikasi Tutupan Lahan Menggunakan Citra Landsat 8 Operational Land Imager (OLI) Di Kabupaten Sumedang. *Jurnal Teknotan*, 10(2), 61–70. <https://doi.org/10.24198/jt.vol10n2.9>
- Suleman, S. A., & Apsari, N. C. (2017). Peran Stakeholder Dalam Manajemen Bencana Banjir. *Prosiding Penelitian Dan Pengabdian Kepada Masyarakat*, 4(1), 53.  
<https://doi.org/10.24198/jppm.v4i1.14210>
- Tan, J., Chen, M., Ao, C., Zhao, G., Lei, G., Tang, Y., Wang, B., & Li, A. (2022). Inducing flooding index for vegetation mapping in water-land ecotone with Sentinel-1 & Sentinel-2 images: A case study in Dongting Lake, China. *Ecological Indicators*, 144(September), 109448. <https://doi.org/10.1016/j.ecolind.2022.109448>
- Tavus, B., Kocaman, S., & Gokceoglu, C. (2022). Flood damage assessment with Sentinel-1 and Sentinel-2 data after Sardoba dam break with GLCM features and Random Forest method. *Science of the Total Environment*, 816, 151585.  
<https://doi.org/10.1016/j.scitotenv.2021.151585>
- Tazmul Islam, M., & Meng, Q. (2022). An exploratory study of Sentinel-1 SAR for rapid urban flood mapping on Google Earth Engine. *International Journal of Applied Earth Observation and Geoinformation*, 113(June), 103002.  
<https://doi.org/10.1016/j.jag.2022.103002>



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