

## DAFTAR PUSTAKA

- Alfio, V. S., Costantino, D., Pepe, M., Rossi, G., & L, M. (2023). Production of High Geometric Resolution Orthophotos by Photogrammetric Approach for The Royal Racconigi Castel Park Documentation. *Geographia Technica*, 18(2), 40–50. [https://doi.org/10.21163/GT\\_2023.182.03](https://doi.org/10.21163/GT_2023.182.03)
- Eisenbeiß, H. (2009). *UAV Photogrammetry*. University of Technology Dresden.
- Geodis-Ale. (2012). *Calculation of Volumes Cut and Fill*. Geodis. <http://www.geodisale.com/ArticolCalculationVolumes.html>
- Hadi, S., & Rizani, A. (2023). Perbandingan Volume Overburden Berdasarkan Hasil Pengukuran Metode Cut And Fill Dengan Metode Truck Count. *Jurnal POROS TEKNIK*, 15(1), 1–8. <https://doi.org/10.31961/porosteknik.v15i1.1647>
- Hasija, Y. (2023). Statistical methods in bioinformatics. Dalam *All about bioinformatics* (pp. 3.9.3 Paired samples t-test). Elsevier. Diperoleh dari ScienceDirect: <https://www.sciencedirect.com/science/article/pii/B9780323953772000094>
- Hidayat, R. (2022). *Analisis Ketelitian Model 3 Dimensi Hasil Kombinasi Terrestrial Laser Scanner Dan Unmanned Aerial Vehicle*. Universitas Pembangunan Nasional “Veteran” Yogyakarta.
- Javadnejad, F. (2017). *Small Unmanned Aircraft Systems (UAS) for Engineering Inspections and Geospatial Mapping*. Oregon State University.
- Julzarika, A., & Djurdjani, D. (2019). DEM Classifications: Opportunities and Potential of its Applications. *Journal of Degraded and Mining Lands Management*, 6(4), 1897–1905. <https://doi.org/10.15243/jdmlm.2019.064.1897>
- Kyriou, A., Nikolakopoulos, K., & Koukouvelas, I. (2021). How Image Acquisition Geometry of UAV Campaigns Affects The Derived Products and Their Accuracy in Areas with Complex Geomorphology. *ISPRS International Journal of Geo-Information*, 10(408), 1–19. <https://doi.org/10.3390/ijgi10060408>
- Lee, S.-J., & Choi, S.-O. (2019). Analyzing The Stability of Underground Mines Using 3D Point Cloud Data and Discontinuum Numerical Analysis. *Sustainability*, 11(945), 1–20. <https://doi.org/10.3390/su11040945>
- Markiewicz, J., Łapiński, S., Pilarska-Mazurek, M., Zawieska, D., & Levytskyi, V. (2022). Using Low-Cost Uavs In Post-Mining Exploration-A Case Study. *Sensors and Machine Learning Applications*, 1(1), 1–23. <https://doi.org/10.55627/smla.001.01.0009>



- Matsimbe, J., Mdolo, W., Kapachika, C., Musonda, I., & Dinka, M. (2022). Comparative Utilization of Drone Technology Vs. Traditional Methods in Open Pit Stockpile Volumetric Computation: A Case of Njuli Quarry, Malawi. *Frontiers in Built Environment*, 8(1037487), 1–14. <https://doi.org/10.3389/fbuil.2022.1037487>
- Maune, D. F., & Nayegandhi, A. (2018). *Digital Elevation Model Technologies and Applications: The DEM Users Manual* (3rd ed.). American Society for Photogrammetry and Remote Sensing.
- Micheletti dkk. (2015). *Structure from Motion ( SfM ) Photogrammetry, Geomorphological Techniques* (2 ed.). British Society for Geomorphology.
- Nagendran, S. K., & Ismail, M. A. M. (2020). Application of UAV Photogrammetry for Quarry Monitoring. *Warta Geologi*, 46(2), 76–81. <https://doi.org/10.7186/wg462202006>
- Nasrullah, A. (2016). *Systematic Analysis of Unmanned Aerial Vehicle (UAV) Derived Product Quality*. University of Twente.
- Nugroho, P. B. (2021). *Perhitungan Volume Stockpile Batubara Metode Cut And Fill Dengan Perangkat Lunak Surpac, Global Mapper Dan Minescape Berdasarkan Data Pengukuran RTK Radio GNSS*. Universitas Gadjah Mada.
- Permana, W. A. (2014). *Perhitungan Volume Stockpile Batubara Metode Cut And Fill Menggunakan Berbagai Jenis Perangkat Lunak*. Universitas Gadjah Mada.
- Prasetyo, E. (2016). *Penggunaan Terrestrial Laser Scanner Faro Focus3d X 330 Untuk Pengukuran Volumetrik Stok Opname Batubara (Lokasi: PLTU Suralaya)*. Universitas Gadjah Mada.
- Prokofeva, E. N., Vostrikov, A. V, Nekrasov, H. A., & Redin, D. E. (2021). Design of Navigation Satellite Systems in Effective Geomonitoring for Mining. *IOP Conference Series: Earth and Environmental Science*, 720(12107), 1–7. <https://doi.org/10.1088/1755-1315/720/1/012107>
- Pujiono, J. (2023). *Peningkatan Kualitas Data Koordinat 3D UAV Dengan Memanfaatkan Data Laser Scanner Menggunakan Software Riscan Pro Dalam Update Topografi Perubahan Tambang Pit South Tutupan*. Politeknik Pertanian Negeri Samarinda.
- Quintero, M. S., Genechten, B. Van, Bruyne, M. De, Poelman, R., Hankar, M., Barnes, S., Caner, H., Budei, L., Heine, E., Reiner, H., García, J. L. L., & Taronger, J. M. B. (2008). *Theory and Practice on Terrestrial Laser Scanning. The Learning Tools for Advanced Three-Dimensional Surveying in Risk Awareness Project*. Vlaams Leonardo da Vinci Agentschap.
- RIEGL. (2025). *RIEGL VZ-2000i Datasheet*. RIEGL.



Sabins, F. (1987). *Remote Sensing Principles and Interpretation second edition*. New York:

W. H. Freeman and company.

Saifullah, Ren, Z., Hussain, K., & Faheem, M. (2024). K-Means Online-Learning Routing Protocol (K-MORP) For Unmanned Aerial Vehicles (UAV) Adhoc Networks. *Ad Hoc Networks*, 154(103354), 1–15. <https://doi.org/10.1016/j.adhoc.2023.103354>

Salsabila, R. (2017). *Perbandingan Perhitungan Volume Stockpile Batu Bara Menggunakan Data Terrestrial Laser Scanner (TLS) Dan Data Foto Udara Unmanned Aerial Vehicle (UAV)*. Universitas Gadjah Mada.

Šašak, J., Gallay, M., Kaňuk, J., Hofierka, J., & Minár, J. (2019). Combined Use of Terrestrial Laser Scanning and UAV Photogrammetry in Mapping Alpine Terrain. *Remote Sensing*, 11(2154), 1–25. <https://doi.org/10.3390/rs11182154>

Setyawan, D., & Susilo, Y. (2025). Analisis Perbandingan Volume Stockpile Batu Bara Hasil Uav Lidar Dan Hasil Penimbangan (Studi Kasus PT. Hardaya Mining Energy, Site Sebakis, Nunukan, Kalimantan Utara). *El-Jughrafiyah*, 5(1), 112–123. <https://doi.org/10.24014/jej.v5i1.36301>

Shan, J., & Toth, C. K. (2018). *Topographic Laser Ranging and Scanning: Principles and Processing*. CRC Press.

Surtees, M. S. J. (2009). *Bathymetric Survey of Flooded Open Cast Mine Workings*. University of Southern Queensland.

Wang, B., Shi, W., & Liu, E. (2015). Robust Methods for Assessing The Accuracy of Linear Interpolated DEM. *International Journal of Applied Earth Observation and Geoinformation*, 34, 198–206. <https://doi.org/10.1016/j.jag.2014.08.012>

Wazaz, H., Deidun, A., & Gauci, A. (2022). Use of a Low-Cost Unmanned Surface Vessel for Bathymetry Surveys and Pocket Beach Sediment Dynamics Monitoring. *2022 IEEE International Workshop on Metrology for the Sea; Learning to Measure Sea Health Parameters (MetroSea)*, 488–492. <https://doi.org/10.1109/MetroSea55331.2022.9950994>

Wicaksono, H. P. (2006). *Pemetaan Candi Pawon Dengan 3D Laser Scanner HDS 3000 (Target to Target Registration)*. Universitas Gadjah Mada, Teknik Geodesi. Yogyakarta: Skripsi.

Yildiz, F., & Oturanc, S. Y. (2014). An Investigation of Direct and Indirect Geo-Referencing Techniques on the Accuracy of Points in Photogrammetry. *World Academy of Science, Engineering and Technology International Journal of Aerospace and Mechanical Engineering*, 8(9), 677–680. <https://doi.org/10.5281/zenodo.1337511>



- Zeybek, M., Taşkaya, S., Elkhachy, I., & Tarolli, P. (2023). Improving the Spatial Accuracy of UAV Platforms Using Direct Georeferencing Methods: An Application for Steep Slopes. In *Remote Sensing* (Vol. 15, Issue 2700, pp. 1–22). <https://doi.org/10.3390/rs15102700>
- Zhang, H., Aldana-Jague, E., Clapuyt, F., Wilken, F., Vanacker, V., & Van Oost, K. (2019). Evaluating the Potential of Post-Processing Kinematic (PPK) Georeferencing for UAV-Based Structure-from-Motion (SFM) Photogrammetry and Surface Change Detection. *Earth Surface Dynamics*, 7(3), 807–827. <https://doi.org/10.5194/esurf-7-807-2019>