

DAFTAR PUSTAKA

- Abdulmajed, R. & Abbak, R. (2019). Accuracy Comparison between GPS Only and GPS plus GLONASS in RTK and Static Methods.
- Abualdenien, J. & Borrmann, A. (2020). Vagueness Visualization in Building Models across Different Design Stages. *Advanced Engineering Informatics*, 45(April), 101107. <https://doi.org/10.1016/j.aei.2020.101107>.
- Akca, D., 2007. Least Squares 3D Surface Matching. Ph.D. Thesis, Swiss Federal Institute of Technology Zurich.
- Akmalia, R., Setan, H., Majid, Z., & Suwardhi, D. (2013). Methods for Georeferencing Point Clouds of Building from Static TLS: a Review. *Lecture Notes in Geoinformation and Cartography*, 0, 207–218. https://doi.org/10.1007/978-3-642-36379-5_13.
- Basuki, S. (2011). Ilmu Ukur Tanah (Edisi Revisi). UGM-Press, Yogyakarta.
- BIG. (2021). Peraturan BIG Nomor 13 Tahun 2021 tentang Sistem Referensi Geospasial Indonesia.
- Brenner, C., Dold, C., & Ripperda, N. (2008). Coarse orientation of terrestrial laser scans in urban environments.
- BSN. (2002). SNI 19-6724-2002: Jaring Kontrol Horizontal. Jakarta: Badan Standardisasi Nasional.
- Chapelle, O., Chi, M., & Zien, A. (2006, June). A Continuation Method for Semi-supervised SVMs. in *Proceedings of the 23rd International Conference on Machine Learning*. 185-192.
- Chatterjee, A., Rakshit, A., & Singh, N. N. (2013). *Vision Based Autonomous Robot Navigation: Algorithms and Implementations*. 1st Edition . Springer. <https://doi.org/10.1007/978-3-642-33965-3>.
- Corke, P. (2017). Robotics, Vision and Control: Fundamental Algorithms in Matlab® Second, Completely Revised, Extended and Updated Edition. Springer International Publishing AG.
- Debeunne, C. & Vivet, D. (2020). A Review of Visual-LiDAR Fusion Based Simultaneous Localization and Mapping. *Sensors (Switzerland)*, 20(7). <https://doi.org/10.3390/s20072068>.
- Duca, G. & Machado, C. (2023). Assessing the Quality of the Leica BLK2GO Mobile

- Laser Scanner versus the Focus 3D S120 Static Terrestrial Laser Scanner for a Preliminary Study of Garden Digital Surveying. *Heritage*, 6(2), 1007–1027. <https://doi.org/10.3390/heritage6020057>.
- Diez, Y., Martí, J., & Salvi, J. (2012). Hierarchical Normal Space Sampling to Speed up Point Clouds Coarse Matching. *Pattern Recognition Letters*, 33(16), 2127–2133. <https://doi.org/10.1016/j.patrec.2012.07.006>.
- Dlesk, A., Vach, K., Šedina, J., & Pavelka, K. (2022). Comparison of Leica Blk360 and Leica Blk2Go on Chosen Test Objects. *International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences-ISPRS Archives*, 46(5/W1-2022), 77–82. <https://doi.org/10.5194/isprs-archives-XLVI-5-W1-2022-77-2022>.
- Elhashash, M., Albanwan, H., & Qin, R. (2022). A Review of Mobile Mapping Systems: from Sensors to Applications. *Sensors*, 22(11), 1–27. <https://doi.org/10.3390/s22114262>.
- Fernandes, D., Afonso, T., Girão, P., Gonzalez, D., Silva, A., Névoa, R., Novais, P., Monteiro, J., & Melo-pinto, P. (2021). Real-time 3D Object Detection and Slam Fusion in a Low-cost LiDAR Test Vehicle Setup. *Sensors*, 21(24). <https://doi.org/10.3390/s21248381>.
- Fotopoulos, G. (2003). An Analysis on the Optimal Combination of Geoid, Orthometric and Ellipsoidal Height Data by. *Department of Geomatics Engineering, University of Calgary*, (20185), 230. <http://www.geomatics.ucalgary.ca/links/GradTheses.html>.
- Franzini, M., Casella, V. M., & Monti, B. (2023). Assessment of Leica CityMapper-2 LiDAR Data within Milan's Digital Twin Project. *Remote Sensing*, 15(21), 1–22. <https://doi.org/10.3390/rs15215263>.
- Gharineiat, Z., Tarsha Kurdi, F., Henny, K., Gray, H., Jamieson, A., & Reeves, N. (2024). Assessment of NavVis VLX and BLK2GO SLAM Scanner Accuracy for Outdoor and Indoor Surveying Tasks. *Remote Sensing*, 16(17). <https://doi.org/10.3390/rs16173256>.
- Grant, D. S. (2013). Clouds to clouds registration for 3D point data (Doctoral dissertation, Purdue University).
- Ghilani, C. D. (2010). *Adjustment Computations: Spatial Data Analysis* (5th Edition). John Wiley & Sons.

- Grafarend, E. & Awange, J., 2003. Nonlinear Analysis of the Three-Dimensional Datum Transformation [Conformal Group C7(3)]. *Journal of Geodesy*, 77 (1–2), 66–76. doi:10.1007/s00190-002-0299-9.
- Grussenmeyer, P., Landes, T., Voegtli, T., & Ringle, K. (2016). Comparison Methods of Terrestrial Laser Scanning, Photogrammetry and Tacheometry Data for Recording of Cultural Heritage Buildings. *ISPRS-International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences*, XLI-B5, 213–220. <https://doi.org/10.5194/isprs-archives-XLI-B5-213-2016>.
- Hofmann-Wellenhof, B. & Moritz, H. (2006). *Physical Geodesy*. Vienna: Springer Vienna.
- Jiang, S., Qi, P., Han, L., Liu, L., Li, Y., Huang, Z., Liu, Y., & He, X. (2024). Navigation system for orchard spraying robot based on 3D LiDAR SLAM with NDT_ICP point clouds registration. *Computers and Electronics in Agriculture*, 220, 108870. <https://doi.org/10.1016/j.compag.2024.108870>
- Kowalczyk, W. Z. & Hadas, T. (2024). A Comparative Analysis of the Performance of Various GNSS Positioning Concepts Dedicated to Precision Agriculture. *Reports on Geodesy and Geoinformatics*, 117(1), 11–20. <https://doi.org/10.2478/rgg-2024-0002>.
- Leica Geosystems. (2019). *Leica BLK2GO Manual*. https://entertainment.leica-geosystems.com/wp-content/uploads/2024/08/BLK2GO_SpecSheet.pdf.
- Li, R., He, W., & Liu, S. (2023). Three-dimensional Point Clouds Data Pre-processing for the Multi-source Information Fusion in Aircraft Assembly. *Applied Sciences*, 13(8), 4719. doi:<https://doi.org/10.3390/app13084719>.
- Liu, Y., Wang, C., Wu, H., & Wei, Y. (2024). An Effective LiDAR-Inertial SLAM-Based Map Construction Method for Outdoor Environments. *Remote Sensing*, 16(16), 3099. <https://doi.org/10.3390/rs16163099>
- Luo, H., Zou, D., Li, J., Wang, A., Wang, L., Yang, Z., & Li, G. (2025). Visual-inertial Navigation Assisted by a Single UWB Anchor with an Unknown Position. *Satellite Navigation*, 6(1), 1–22. <https://doi.org/10.1186/s43020-024-00153-6>.
- Bai, L., Lyu, Y., Xu, X., & Huang, X. (2020). PointNet on FPGA for Real-time LiDAR Point Clouds Processing. . <https://doi.org/10.1109/ISCAS45731.2020.9180841>.
- Mitka, B., Klapa, P., & Gawronek, P. (2024). Laboratory Tests of Metrological Characteristics of a Non-Repetitive Low-cost Mobile Handheld Laser Scanner.

- Sensors*, 24(18). <https://doi.org/10.3390/s24186010>.
- Nuchter, A. (2009). *3D Robotic Mapping: The Simultaneous Localization and Mapping Problem with Six Degrees of Freedom* (1st Edition). Springer. <https://doi.org/10.1007/978-3-540-89884-9>.
- Peng, H., Zhao, Z., & Wang, L. (2024). A Review of Dynamic Object Filtering in SLAM Based on 3D LiDAR. *Sensors*, 24(2), 645. <https://doi.org/10.3390/s24020645>
- Permadi, F. B., Widjajanti, N., Singagerda, F. A., & Riswanto, T. (2024). Study of Orthophotos Spatial Quality from Integrated Physical Data Collection in Samarinda City. *IOP Conference Series: Earth and Environmental Science*, 1418(1). <https://doi.org/10.1088/1755-1315/1418/1/012012>.
- Piniotis, G., Soile, S., Bourexis, F., Tsakiri, M., & Ioannidis, C. (2020). Experimental Assessment of 3D Narrow Space Mapping Technologies. *International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences-ISPRS Archives*, 43(B2), 149–156. <https://doi.org/10.5194/isprs-archives-XLIII-B2-2020-149-2020>.
- Quintero B., D. F., Kern, J., & Urrea, C. (2024). A Multimodal Fusion System for Object Identification in Point Clouds with Density and Coverage Differences. *Processes*, 12(2). <https://doi.org/10.3390/pr12020248>.
- Ren, Z., Wang, L., & Bi, L. (2019). Robust GICP-based 3D LiDAR SLAM for underground mining environment. *Sensors (Basel, Switzerland)*, 19(13), 2915. <https://doi.org/10.3390/s19132915>
- Reshetyuk, Y. (2009). Self-calibration and Direct Georeferencing in Terrestrial Laser Scanning (Doctoral Dissertation, KTH).
- Seeber, G. (2024). Satellite Geodesy. in *Handbook of Soviet Space-Science Research*. <https://doi.org/10.4324/9781032674247-21>.
- Sester, M. (2020). Analysis of Mobility Data – A Focus on Mobile Mapping Systems. *Geo-Spatial Information Science*, 23(1), 68–74. <https://doi.org/10.1080/10095020.2020.1730713>.
- Song, H., Zhang, J., Zuo, J., Liang, X., Han, W., & Ge, J. (2022). Subsidence Detection for Urban Roads Using Mobile Laser Scanner Data. *Remote Sensing*, 14(9). <https://doi.org/10.3390/rs14092240>.
- A'Yun, H. Q. & Rokhmana, C. A. (2024). Uji Akurasi Hasil Pengukuran GoPro RTK

untuk Mobile Mapping System pada Aplikasi Survei Kondisi Jalan.

- Torge, W., Müller, J., & Pail, R. (2023). Geodesy. in Geodesy. De Gruyter Oldenbourg.
- Triguero, I., García, S., & Herrera, F. (2015). Self-labeled Techniques for Semi-supervised Learning: Taxonomy, Software and Empirical Study. *Knowledge and Information Systems*, 42(2), 245-284.
- Urban, R., Štroner, M., Braun, J., Suk, T., Kovanič, L., & Blistan, P. (2024). Determination of Accuracy and Usability of a SLAM Scanner GeoSLAM Zeb Horizon: A Bridge Structure Case Study. *Applied Sciences (Switzerland)*, 14(12). <https://doi.org/10.3390/app14125258>.
- Wang, Q., Tan, Y., & Mei, Z. (2020). Computational Methods of Acquisition and Processing of 3D Point Clouds Data for Construction Applications. *Archives of Computational Methods in Engineering*, 27(2), 479–499. <https://doi.org/10.1007/s11831-019-09320-4>.
- Wijanarko, B. (2021). Klasifikasi Digital Tutupan Lahan Berbasis Objek Menggunakan Integrasi Data LiDAR dan Citra Satelit di Kawasan Tamalanrea Indah, Kota Makassar. (Doctoral Dissertation, Universitas Gadjah Mada).
- Willmott, C. J., & Matsuura, K. (2005). Advantages of the mean absolute error (MAE) over the root mean square error (RMSE) in assessing average model performance. *Climate Research*, 30(1), 79–82.
- Yuan, J., Luo, H., Yu, L., Luo, M., Ban, Y., & Shi, J. J. (2020). Performance Assessment of Single Frequency GNSS RTK/MEMS-IMU Combined Positioning. *Journal of Physics: Conference Series*, 1544(1), 1–9. <https://doi.org/10.1088/1742-6596/1544/1/012166>.
- Zhang, K., Cui, H., & Yan, X. (2024). Simultaneous localization and mapping of mobile robots with multi-sensor fusion. *Applied Mathematics and Nonlinear Sciences*, 9(1)<https://doi.org/10.2478/amns.2023.2.00488>
- Zheng, Z., Zhang, X., & Zhou, W. (2023). LiDAR-Based Point Clouds Data Processing Application Research. *2023 5th International Conference on Geoscience and Remote Sensing Mapping, GRSM 2023*, 214–219. <https://doi.org/10.1109/GRSM60169.2023.10425603>.