



DAFTAR PUSTAKA

- Aber, J. *et al.* (2019) *Small-Format Aerial Photography and UAS Imagery*, Elsevier. doi: 10.1017/CBO9781107415324.004.
- Arsyad, N. (2020) ‘Akurasi Citra data Foto Udara Persimpangan Lalu Lintas Kota Kendari’, *Rekayasa Sipil*, 14(1), pp. 51–59.
- Arturo, M. and Ndoma, A. (2019) ‘The Uses of Unmanned Aerial Vehicles - UAV’s- (or drones) in Social Logistic : Natural Disasters Responses and Humanitarian Relief Aid’, *Procedia Computer Science*. Elsevier B.V., 149, pp. 375–383.
- Baatz, M. and Schape, A. (2000) ‘Multiresolution Segmentation: an optimization approach for high quality multi-scale image segmentation’, *Computer Science*.
- Bandara, N. (2001) ‘Current and Future Pavement Maintenance Prioritization Based on Rapid Visual Condition Evaluation’, *Journal of Transportation Engineering*, March 2001, (April), pp. 116–123.
- Benz, U. C. (2004) ‘Multi-resolution, object-oriented fuzzy analysis of remote sensing data for GIS-ready information’, *ISPRS Journal of Photogrammetry and Remote Sensing*, 58(3–4), pp. 239–258. doi: 10.1016/j.isprsjprs.2003.10.002.
- Blaschke, T. (2013) ‘Geographic Object-Based Image Analysis - Towards a new paradigm’, *ISPRS Journal of Photogrammetry and Remote Sensing*. International Society for Photogrammetry and Remote Sensing, Inc. (ISPRS), 87(December 2013), pp. 180–191. doi: 10.1016/j.isprsjprs.2013.09.014.
- van Blyenburgh, P. (1999) ‘UAVs: an overview’, *Air & Space Europe*, 1(5–6), pp. 43–47. doi: 10.1016/s1290-0958(00)88869-3.
- Campbell, J. and Waynne, R. (2011) *Introduction to Remote Sensing*. The Guildford Press. doi: 10.16309/j.cnki.issn.1007-1776.2003.03.004.
- Congalton, R. and Green, K. (2010) *Assessing the Accuracy of Remotely Sensed Data: Principles and Practices*. Second, CRC Press. Second. doi: 10.1111/j.1477-9730.2010.00574_2.x.

- Cowardin, L. M., V. Carter, F. Golet, and E. LaRoe. 1979. A Classification of Wetlands and Deepwater Habitats of the United States. Office of Biological Services. U.S. Fish and Wildlife Service. U.S. Department of Interior, Washington, DC. 103 pp
- Dash, J. P. *et al.* (2017) 'ISPRS Journal of Photogrammetry and Remote Sensing Assessing very high resolution UAV imagery for monitoring forest health during a simulated disease outbreak', *ISPRS Journal of Photogrammetry and Remote Sensing*. Scion (New Zealand Forest Research Institute), 131, pp. 1–14.
- Demers, A. M. *et al.* (2015) 'A comparative analysis of object-based and pixel-based classification of RADARSAT-2 C-band and optical satellite data for mapping shoreline types in the canadian arctic', *Canadian Journal of Remote Sensing*, 41(1), pp. 1–19. doi: 10.1080/07038992.2015.1020361.
- Drăgut, L., Tiede, D. and Levick, S. R. (2010) 'ESP: A tool to estimate scale parameter for multiresolution image segmentation of remotely sensed data', *International Journal of Geographical Information Science*, 24(6), pp. 859–871. doi: 10.1080/13658810903174803.
- Eisenbeiss, H. (2011) 'The Potential of Unmanned Aerial Vehicles for Mapping', pp. 135–145.
- Eisenbeiß, H. (2009) *UAV photogrammetry*, *Institute of Photogrammetry and Remote Sensing*. doi: doi:10.3929/ethz-a-005939264.
- El-Sheimy, N., Valeo, C. and Habib, A. (2005) 'Digital Terrain Modeling: Acquisition, Manipulation, and Applications', *Lib.TuDelft.C.*
- Everaerts, J. (2008) 'The Use of Unmanned Aerial Vehicles (UAVs) for Remote Sensing and Mapping', *The International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences. Beijing*, XXXVII, pp. 1187–1192.
- Fonstad, M. A. *et al.* (2013) 'Topographic Structure from Motion: A New Development in Photogrammetric Measurement', *Earth Surface Processes and Landforms*, 38(4), pp. 421–430. doi: 10.1002/esp.3366.

- Forlani, G. (2015) ‘Where is photogrammetry heading to? State of the art and trends’, *Geodesy and Geomatics to the Edge*, 26, pp. 85–96. doi: 10.1007/s12210-015-0381-x.
- Fraser, C. S. (2013) ‘Automatic camera calibration in close range photogrammetry’, *Photogrammetric Engineering and Remote Sensing*, 79(4), pp. 381–388. doi: 10.14358/PERS.79.4.381.
- Fwa, T. . (2006) *The Handbook of Highway Engineering*, CRS Press Taylor & Francis Group. Florida.
- Habib, A. F. (2007) ‘New methodologies for true orthophoto generation’, *Photogrammetric Engineering and Remote Sensing*, 73(1), pp. 25–36.
- Herold, M. and Roberts, D. (2005) ‘Spectral characteristics of asphalt road aging and deterioration : implications for remote-sensing applications’, *Applied Optics*, 44(20).
- Inzerillo, L., Di, G. and Roberts, R. (2018) ‘Image-based 3D reconstruction using traditional and UAV datasets for analysis of road pavement distress’, *Automation in Construction*. Elsevier, 96 (September), pp. 457–469.
- James, M. R. and Robson, S. (2012) ‘Straightforward reconstruction of 3D surfaces and topography with a camera : Accuracy and geoscience application’, 117(August), pp. 1–17. doi: 10.1029/2011JF002289.
- Jansen, J. R. (2015) *Introductory Digital Image Processing : A Remote Sensing Perspective*. 4th edn. Edited by A. DeGenaro. Pearson Series in Geographic Information Science. Available at: <http://repositorio.unan.edu.ni/2986/1/5624.pdf>.
- Kakaes, K. et al. (2015) *Drones and Aerial Observation : New Technologies for Property Rights, Human Rights, and Global Development*, New America.
- Li, Z., Zhu, Q. and Gold, C. (2005) *Digital Terrain Modeling : Principles and Methodology*. CRC Press.
- Lillesand, T. M., Kiefer, R. W. and Chipman, J. W. (2004) *Remote Sensing and Image Interpretation*. John Wiley & Sons.

- Lizarraga-Morales, R. A. *et al.* (2014) ‘Integration of color and texture cues in a rough set-based segmentation method’, *Journal of Electronic Imaging*, 23(2), p. 023003. doi: 10.1117/1.jei.23.2.023003.
- Loprencipe, G. (2017) ‘A Specified Procedure for Distress Identification and Assessment for Urban Road Surfaces Based on PCI’, *Coatings*. doi: 10.3390/coatings7050065.
- Lowe, D. G. (2004a) ‘Distinctive image features from scale-invariant keypoints’, *International Journal of Computer Vision*, pp. 91–110.
- Lowe, D. G. (2004b) ‘Distinctive Image Features from Scale-Invariant Keypoints’, 60(2), pp. 91–110.
- Ma, L. *et al.* (2015) ‘Training set size, scale, and features in Geographic Object-Based Image Analysis of very high resolution unmanned aerial vehicle imagery’, *ISPRS Journal of Photogrammetry and Remote Sensing*. International Society for Photogrammetry and Remote Sensing, Inc. (ISPRS), 102, pp. 14–27.
- Miller, J.S. & Bellinger, W. . (2014) ‘Distress Identification Manual for the Long-Term Pavement Performance Program’, in *U.S Department of Transportation Federal Highway Administration*. U.S Department of Transportation Federal Highway Administration.
- Mishra, G, “Types of Distress in Bituminous Pavements and their causes “ diakses pada 30 Juli 2020, <https://theconstructor.org/transportation/distress-in-bituminous-pavement/5504/>
- Modiri, M., Enayatib, H. and Ebrahimikiac, M. (2015) ‘The assessment of orthophoto quality with respect to the structure of digital elevation model’, *International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives*, 40(1W5), pp. 487–492. doi: 10.5194/isprsarchives-XL-1-W5-487-2015.
- Mohod, M. and Kadam, K. N. (2016) ‘A comparative study on rigid and flexible pavement: A Review’, *IOSR Journal of Mechanical and Civil Engineering*, 13(3), pp. 84–88. doi: 10.9790/1684-1303078488.
- Nikolopoulos, K. G. *et al.* (2016) ‘UAV vs classical aerial photogrammetry for archaeological studies’, *JASREP*. Elsevier Ltd. doi: 10.1016/j.jasrep.2016.09.004.

- Nogueira, F. C. and Roberto, L. (2017) ‘Accuracy Analysis of Orthomosaic and DSM Produced from Sensor Aboard UAV’, *XVIII Simpósio Brasileiro de Sensoriamento Remoto -SBSR*, d(2011), pp. 4880–4887.
- Pemerintah Indonesia. 2015. Peraturan Kepala Badan Informasi Geospasial Nomor 15 Tahun 2014 Tentang Pedoman Teknis Ketelitian Peta Dasar.
- Pemerintah Indonesia.2016. Penentuan Indeks Kondisi Perkerasan (IKP) Kementerian Pekerjaan Umum dan Perumahan Rakyat.
- Pemerintah Indonesia.2004. 'Undang-Undang Republik Indonesia Nomor 38 Tahun 2004 Tentang Jalan'
- Prajwal, M. (2016) ‘Optimal Number of Ground Control Points for a UAV based Corridor Mapping’, *International Journal of Innovative Research in Science, Engineering and Technology*, 5(9), pp. 28–32. doi: 10.15680/IJIRSET.2016.0505505.
- Radopoulou, S. (2016) ‘A Framework for Automated Pavement Condition Monitoring’, *Construction Research Congress*, (Asce 2013), pp. 770–779.
- Radopoulou, S. C. and Brilakis, I. (2015) ‘Automation in Construction Patch detection for pavement assessment’, *Automation in Construction*. Elsevier B.V., 53, pp. 95–104. doi: 10.1016/j.autcon.2015.03.010.
- Ragnoli, et al (2018) ‘Pavement Distress Detection Methods: A Review’, *Infrastructures*, 3(4), p. 58. doi: 10.3390/infrastructures3040058.
- Ranga, N , “Know Thy Enemy – Rutting” diakses pada 30 juli 2020,
<https://everythingroads.com/category/road-distresses/>
- Rokhmana, C. A. (2015) ‘The potential of UAV-based remote sensing for supporting precision agriculture in Indonesia’, *Procedia Environmental Sciences*. Elsevier B.V., 24, pp. 245–253. doi: 10.1016/j.proenv.2015.03.032.
- Ruzgienne, B. et al. (2015) ‘The surface modelling based on UAV Photogrammetry and qualitative estimation’, *Measurement: Journal of the International Measurement Confederation*. Elsevier Ltd, 73, pp. 619–627.

- Saad, A. M. and Tahar, K. N. (2019) ‘Identification of Rut and Pothole by using Multirotor Unmanned Aerial Vehicle (UAV)’, *Measurement*. Elsevier Ltd, (January). doi: 10.1016/j.measurement.2019.01.093.
- Schnebele, E. (2015) ‘Review of remote sensing methodologies for pavement management and assessment’, *European Transport Research Review*.
- Shahi, K. and Shafri, H. Z. M. (2015) ‘a novel spectral index to automatically extract road networks from WorldView-2 satellite imagery’, *The Egyptian Journal of Remote Sensing and Space Sciences*. Authority for Remote Sensing and Space Sciences, 18(1), pp. 27–33. doi: 10.1016/j.ejrs.2014.12.003.
- Shahin, M. (1979) ‘Development of a Pavement Maintenance Management System’, VI, pp. 243–260. doi: 10.1007/3-540-46708-4_10.
- Themistocleous, K., Pilakoutas, K. and Hadjimitsis, D. G. (2014) ‘Damage assessment using advanced non-intrusive inspection methods : Integration of Space , UAV , GPR and Field Spectroscopy’, *Second International Conference on Remote Sensing and Geoinformation of the Environment (RSCy2014)*,
- Turner, I. L., Harley, M. D. and Drummond, C. D. (2016) ‘UAVs for coastal surveying’, *Coastal Engineering*. Elsevier B.V., 114, pp. 19–24.
- Uljarevic, M. and Supic, S. (2016) ‘Comparative Analysis of Flexible and Rigid Pavement Design’, *Contemporary Construction Achievements in civil engineering*, pp. 835–844. doi: 10.14415/konferencijaGFS.
- Valkaniotis, S., Papathanassiou, G. and Ganas, A. (2018) ‘Mapping an earthquake-induced landslide based on UAV imagery ; case study of the 2015 Okeanos landslide , Lefkada , Greece’, *Engineering Geology*. Elsevier, 245(August), pp. 141–152. doi: 10.1016/j.enggeo.2018.08.010.
- Westoby, M. J. (2012) ““Structure-from-Motion” photogrammetry: A low-cost, effective tool for geoscience applications”, *Geomorphology*. Elsevier B.V., 179, pp. 300–314. doi: 10.1016/j.geomorph.2012.08.021.



- Wheaton, J. M. *et al.* (2010) ‘Accounting for Uncertainty in DEMs from Repeat Topographic Surveys: Improved Sediment Budgets’, *Earth Surface Processes and Landforms*, 35(2), pp. 136–156. doi: 10.1002/esp.1886.
- Wolf, P. R. (2014) *Elements of Photogrammetry with Applications in GIS*. 4th edn. McGraw-Hill Education.
- Zhang, C. and Chen, T. (2001) ‘Efficient Feature Extraction for 2D/3D Objects In Mesh Representation’, *Virtual Reality*, pp. 1–4.
- Zhang, C. and Elaksher, A. (2012) ‘An Unmanned Aerial Vehicle-Based Imaging System for 3D Measurement of Unpaved Road Surface Disstress’, *Computer-Aided Civil and Infrastructure Engineering*, 27, pp. 118–129. doi: 10.1111/j.1467-8667.2011.00727.x.