

DAFTAR PUSTAKA

- Abrams, M., Crippen, R., & Fujisada, H. (2020). ASTER Global Digital Elevation Model (GDEM) and ASTER Global Water Body Dataset (ASTWBD). *Remote Sensing*, *12*(1156), 1–12. <https://doi.org/doi:10.3390/rs12071156>
- Aggarwal, S. (2004). Principles of Remote Sensing. In *Satellite Remote Sensing and GIS Applications in Agricultural Meteorology* (hal. 23). World Meteorological Organisation.
- Alghamdi, Y., Munir, A., & La, H. M. (2021). Architecture, Classification, and Applications of Contemporary Unmanned Aerial Vehicles. *IEEE Consumer Electronics Magazine*, 9–20.
- Andreas, S. W., Sahid, S., & Darmadi, D. (1992). Studi Karakteristik Hujan Tunggal di Kawasan Iklim Muson Tropik, Studi Kasus Sifat Hujan di Yogyakarta. *Agritech*, *12*(4), 14–20.
<https://doi.org/https://doi.org/10.22146/agritech.19250>
- Ardianto, Y. W., & Dibyosaputro, S. (2016). Analisis Morfometri Butir Material Dasar Sungai Jali, Jawa Tengah. *Jurnal Bumi Indonesia*, *5*(3).
- Asdak, C. (2010). *Hidrologi dan Pengelolaan Daerah Aliran Sungai*. UGM Press.
- Asgharpour, S., & Ajdari, B. (2011). A Case Study on Seasonal Floods in Iran, Watershed of Ghotour Chai Basin. *Social and Behavioral Sciences* *19*, 556–566. <https://doi.org/10.1016/j.sbspro.2011.05.169>
- Atkinson, K. B. (1996). *Close Range Photogrammetry and Machine Vision*. Whittles Publishing.
- Azamathulla, H. M., & Jarrett, R. D. (2012). Use of Gene-Expression Programming to Estimate Manning’s Roughness Coefficient for High Gradient Streams. *Water Resources Management*, *27*, 715–729.
<https://doi.org/https://doi.org/10.1007/s11269-012-0211-1>

- Barid, B., & Yacob, M. (2007). Perubahan Kecepatan Aliran Sungai Akibat Perubahan Pelurusan Sungai. *Semesta Teknik*, 10(1), 14–20.
- Berteška, T., & Ruzgienė, B. (2013). Photogrammetric mapping based on uav imagery. *Geodesy and Cartography*, 39(4), 158–163.
<https://doi.org/10.3846/20296991.2013.859781>
- Chow, V. Te. (1959). *Open Channel Hydraulics*. McGraw-Hill.
- Colomina, I., & Molina, P. (2014). Unmanned aerial systems for photogrammetry and remote sensing: A review. *ISPRS Journal of Photogrammetry and Remote Sensing*, 92, 79–97. <https://doi.org/10.1016/j.isprsjprs.2014.02.013>
- Danoedoro, P. (2012). *Penginderaan Jauh Digital*. Universitas Gadjah Mada.
- Darwin, S. (2021). Survei Aplikasi Segmentasi Citra untuk Autonomous Vehicle. *Prosiding Seminar Nasional Riset dan Teknologi Terapan (Ritektra)*.
- Deng, X., Guo, J., & Wang, J. (2020). The Method of Buildings Monomer Based on UAV Oblique Photography. *International Conference on Computer, Network, Communication and Information Systems (CNCI 2020)*, 1–6.
<https://doi.org/10.23977/CNCI2020001>
- Dipokusumo, B. S., Pratama, M. A., Maria, D., Satin, N., Prakoso, F. D., Bhidari, G. S. A., Sarah, A., Shalehah, N., & Subandono, A. Yudhawan, A. (2020). *UAV Fotogrametri dalam Pemetaan Ruang*. ANDI.
- Djajadi, R. (2009). Comparative Study of Equivalent Manning Roughness Coefficient for Channel with Composite Roughness. *Civil Engineering Dimension*, 11(2), 113–118.
- Duantari, N., & Cahyono, A. B. (2017). Analisis Perbandingan Dtm (Digital Terrain Model) Dari Lidar (Light Detection And Ranging) Dan Foto Udara Dalam Pembuatan Kontur Peta Rupa Bumi Indonesia. *Jurnal Teknik ITS*, 6(2). <https://doi.org/10.12962/j23373539.v6i2.26275>
- Effendy. (2012). DISAINSALURAN IRIGASI. *PILAR*, 7(2).

- Estrada, D. C., Dalgleish, F. R., & Ouden, C. J. Den. (2022). Underwater LiDAR Image Enhancement Using a GAN Based Machine Learning Technique. *IEEE Sensors Journal*, 22(5). <https://doi.org/10.1109/JSEN.2022.3146133>
- Fadjrie, M., Darmawan, S., & Maharani, M. (2018). Penerapan Metode Fotogrametri Jarak Dekat Kombinasi Data Unmanned Aerial Vehicle Untuk Pembuatan Model 3D. *Seminar Nasional ITENAS*.
- Feifei, X., Zongjian, L., Dezhu, G., & Hua, L. (2012). Study On Construction Of 3d Building Based On Uav Images. *Sensing and Spatial Information Sciences*, XXXIX-B1.
- Finnegan, N. J., Roe, G., Montgomery, D. R., & Hallet, B. (2005). Controls on the channel width of rivers: Implications for modeling fluvial incision of bedrock. *Geology*, 33(3), 229–232.
<https://doi.org/https://doi.org/10.1130/G21171.1>
- Firdausy, M. K., & Widyasasi, D. (2017). Pemanfaatan Wahana Drone Tipe Quadcopter Dji Phantom 3 Advance Untuk Pemetaan Areal Kampus Politeknik Pertanian Negeri Samarinda. *Jurnal Agriment*, 2(2), 111–120.
- Fluehler, M., Niederoest, J., & Akca, D. (2005). Development of an educational software system for the digital monoplotting. *Remote Sensing and Spatial Information Sciences*, 36(6). <https://doi.org/https://doi.org/10.3929/ethz-a-005126679>
- Gardiner, V. (1990). Drainage basin morphometry. In *Geomorphological Techniques* (2 ed., hal. 79–92). Routledge Taylor & Francis Group.
- Ginting, S., & Utama, R. N. (2017). Pengukuran Debit Banjir Dengan Metode Tidak Langsung Untuk Pembuatan Lengkung Debit. *2016*.
- Golparvar, B., & Wang, R.-Q. (2021). AI-supported Framework of Semi-Automatic Monoplotting for Monocular Oblique Visual Data Analysis. *Computer Vision and Pattern Recognition*, 21(11).
<https://doi.org/https://doi.org/10.48550/arXiv.2111.14021>

- Grant, G. E., Swanson, F. J., & Wolman, M. G. (1990). Pattern and origin of stepped-bed morphology in high-gradient streams, Western Cascades, Oregon. *Geological Society of America Bulletin*, 102(3), 340–352.
[https://doi.org/https://doi.org/10.1130/0016-7606\(1990\)102<0340:PAOOSB>2.3.CO;2](https://doi.org/https://doi.org/10.1130/0016-7606(1990)102<0340:PAOOSB>2.3.CO;2)
- Guth, P. L., Van Niekerk, A., Grohmann, C. H., Muller, J.-P., Hawker, L., Florinsky, I. V., Gesch, D., Reuter, H. I., Herrera-Cruz, V., & Riazanoff, S. (2021). Digital Elevation Models: Terminology and Definitions. *Remote Sensing*, 13(3581). <https://doi.org/https://doi.org/10.3390/rs13183581>
- Haala, N., Hastedt, H., Wolf, K., Ressler, C., & Baltrusch, S. (2010). Digital photogrammetric camera evaluation – generation of digital elevation models. *Photogrammetrie Fernerkundung Geoinformation*, 2010(2), 99–115.
- Hadi, M. P., Fadlillah, L. N., Widasmara, M. Y., Muziasari, W. I., & Subaryono, S. (2018). Potensi sumber bakteri resisten antibiotik berdasarkan kondisi kualitas air dan penggunaan lahan di Sungai Code, Yogyakarta: suatu tinjauan metodologis. *Jurnal Pengelolaan Lingkungan Berkelanjutan (Journal of Environmental Sustainability Management)*, 2(1), 88–100.
<https://doi.org/10.36813/jplb.2.1.88-100>
- Hadi, P., Aji, D. S., & Widiyanto, K. (2014). Metode Analisis dan Potensi Air Permukaan. In *Pengelolaan Sumberdaya Air Terpadu* (hal. 89–122). Gadjah Mada University Press.
- Hakim, A. A., Kamal, M. M., Butet, N. A., & Affandi, R. (2019). Analisis Orde Sungai Dan Distribusi Stadia Sebagai Dasar Penentuan Daerah Perlindungan Ikan Sidat (*Anguilla* spp.) Di DAS Cimandiri, Jawa Barat. *Journal of Tropical Fisheries Management*, 3(1), 1–9.
<https://doi.org/10.29244/jpvt.v3i1.29476>
- Hancock, G. R., Martinez, C., Evans, K. G., & Moliere, D. R. (2009). A comparison of SRTM and high-resolution digital elevation models and their use in catchment geomorphology and hydrology: Australian examples. *Earth*

Surface Processes and Landforms, 31(11), 1394–1412.

<https://doi.org/10.1002/esp>

Hill, A. C. (2019). Economical drone mapping for archaeology: Comparisons of efficiency and accuracy. *Journal of Archaeological Science: Reports*, 24, 80–91. <https://doi.org/https://doi.org/10.1016/j.jasrep.2018.12.011>

Husein, S., & Srijono. (2010). Peta Geomorfologi Daerah Istimewa Yogyakarta. *Simposium Geologi Yogyakarta At: IAGI Pengda D. I. Yogyakarta*. <https://doi.org/10.13140/RG.2.2.10627.50726>

Ikhsan, J., & Iriawan, D. (2013). Pengaruh Erupsi Merapi 2010 terhadap Aspek Lingkungan dan Sosial: Studi Kasus di Sungai Code. *Seminar Nasional Teknik Sipil III 2013 Universitas Muhammadiyah Surakarta*.

Julzarika, A. (2009). Perbandingan Teknik Orthorektifikasi Citra Satelit Spot5 Wilayah Semarang Dengan Metode Digital Mono Plotting (DMP) Dan Metode Rational Polynomial Coefficients (RPCs). *Jurnal Penginderaan Jauh*, 6, 11–21.

Julzarika, A., Kustiyo, & Harsanugrah, W. K. (2008). Teknik Penurunan Digital Surface Model (DSM) dari Citra Satelit ALOS Menjadi Digital Elevation Model (DEM) (Studi Kasus: Cilacap, Indonesia). *Prosiding PIT MAPIN XVII*.

Kimi, S. (2015). Pengaruh Jenis Dan Kemiringan Dasar Saluran Terhadap Nilai Koefisien C Dengan Persamaan Manning Berdasarkan Hasil Uji Laboratorium. *Bearing : Jurnal Penelitian dan Kajian Teknik Sipil*, 4(1).

Langbein, W. B. (1964). Profiles of rivers of uniform discharge: Geological Survey research. *U.S. Geological Survey Professional Paper*, 501-B, 119–122.

Latuamury, B. (2020). *Buku Ajar Manajemen DAS Pulau-Pulau Kecil*. Deepublish.

- Leopold, L. B., & Maddock, T. J. (1953). The Hydraulic Geometry of Stream Channels and Some Physiographic Implications. *Geological Survey Professional Paper*, 252, 1–4, 9–16.
- Li, Z., Zhu, C., & Gold, C. (2005). *Digital Terrain Modeling: Principles and Methodology*. CRC Press.
- Linder, W. (2009). *Digital Photogrammetry: A Practical Course*. Springer-Verlag Berlin Heidelberg.
- Listyaningrum, Noviyanti Lestari, S. F., Riyanto, I. A., & Cahyadi, A. (2017). Pengelolaan Sempadan Sungai Code Sebagai Upaya Pelestarian Ekosistem Daerah Aliran Sungai Di Kota Yogyakarta Dan Sekitarnya. *Seminar Nasional III Pengelolaan Pesisir dan Daerah Aliran Sungai, 1*, 1–12.
- Luhmann, T., Robson, S., Kyle, S. A., & Harley, I. (2006). *Close Range Photogrammetry*. Whittles Publising.
- Magand, C., Alves, M. H., Calleja, E., Datry, Thibault Dörflinger, G., England, J., Gallart, F., Gómez, R., Jordà-Capdevila, Martí, D., Eugènia, Munné, A., Pastor, V. A., Stubbington, R., Tziortzis, I., & Von Schiller, D. (2020). Intermittent rivers and ephemeral streams: what water managers need to know. *European Cooperation in Science and Technology*. <https://doi.org/https://doi.org/10.5281/zenodo.3888474>
- Makarovic, B. (1973). Digitalmono-plotters. *ITC Journal*, 4, 583–600.
- Marco, C., Claudio, B., Ueli, R., Thalia, B., & Patrik, K. (2018). Using the Monoplotting Technique for Documenting and Analyzing Natural Hazard Events. In *Natural Hazards - Risk Assessment and Vulnerability Reduction*. IntechOpen. <https://doi.org/10.5772/intechopen.73232>
- Maryono, A. (2005). *Menangani Banjir Kekeringan dan Lingkungan*. Gadjah Mada University Press.
- Marzloff, I., & Poesen, J. (2009). The potential of 3D gully monitoring with GIS

using high-resolution aerial photography and a digital photogrammetry system. *Geomorphology*, 111(1–2), 48–60.

<https://doi.org/10.1016/j.geomorph.2008.05.047>

Menegoni, N., Meisina, C., Perotti, C., & Crozi, M. (2018). Analysis by UAV digital photogrammetry of folds and related fractures in the monte antola flysch formation (Ponte organasco, Italy). *Geosciences*, 8(299).

<https://doi.org/10.3390/geosciences8080299>

Mikhail, E. M., Bethel, J. S., & McGlone, J. C. (2001). *Introduction to Modern Photogrammetry*. John Wiley & Sons.

Myburgh, A., Botha, H., Downs, C. T., & Woodborne, S. (2021). The application and limitations of a low-cost UAV platform and open-source software combination for ecological mapping and monitoring. *African Journal of Wildlife Research*, 51(1).

Nesbit, P. R., & Hugenholtz, C. H. (2019). Enhancing UAV–SfM 3D Model Accuracy in High-Relief Landscapes by Incorporating Oblique Images. *Remote Sensing*, 11(3), 239.

<https://doi.org/https://doi.org/10.3390/rs11030239>

Papilo, P., Kunaifi, Hambali, E., & Nurmiati. (2018). Penilaian potensi biomassa sebagai alternatif energi kelistrikan. *Jurnal PASTI*, 9(2), 164–176.

Pascima, I. B. N., & Putra, I. G. L. A. R. (2021). Model 3 Dimensi Ukiran Bali Bentuk Karang Gajah Menggunakan Fotogrametri Jarak Dekat. *KARMAPATI*, 10(3).

Pranoto, J. A. H., Sabri, L. M., & Bashit, N. (2020). Pembuatan Model 3d Waduk Pendidikan Diponegoro Menggunakan Data Uav Pada Tahun 2019. *Jurnal Geodesi Undip*, 9(2), 53–62.

Rahmanita, D. (2016). Program Dinas Bina Marga Dan Pengairan Kota Dalam Pengendalian Banjir Di Kelurahan Loa Bakung Kota Samarinda. *Journal Ilmu Pemerintahan*, 4(4), 1465–1474.

- Rantung, M. M., Binilang, A., Wuisan, E. M., & Halim, F. (2013). Analisis Erosi Dan Sedimentasi Lahan Di Sub Das Panasen Kabupaten Minahasa. *Jurnal Sipil Statik*, 1(5), 309–317.
- Ratih, S., Awanda, H. N., Saputra, A. C., & Ashari, A. (2018). Hidrogeomorfologi mataair kaki Vulkan Merapi bagian selatan. *Geomedia*, 16(1), 25–36.
- Reid, M., Cheng, X., Banks, E., Jankowski, J., Jolly, I., Kumar, P., Lovell, D. M., Mitchell, M., Mudd, G. M., Richardson, S., Silburn, M., & Werner, A. D. (2009). *Catalogue of conceptual models for groundwater–stream interaction in eastern Australia: eWater Technical Report*. eWater Cooperative Research Centre.
- Remondino, F., & El-Hakim, S. (2006). Image-based 3D Modelling: A Review. *The Photogrammetric Record*, 21(115), 269–291.
<https://doi.org/https://doi.org/10.1111/j.1477-9730.2006.00383.x>
- Richards, K. S. (1990). Introduction to morphometry. In *Geomorphological Techniques* (2 ed., hal. 37–39). Routledge Taylor & Francis Group.
<https://doi.org/10.4324/9780203430590>
- Riel, S. Van. (2016). *Exploring the use of 3D GIS as an analytical tool in archaeological excavation practice* (Nomor June) [Lund University].
<https://doi.org/10.13140/RG.2.1.4738.2643>
- Rosgen, D. L. (1994). A classification of natural rivers. *Catena*, 22(3), 169–199.
- Rozaki, M. I., & Darul, A. (2022). Estimasi Imbuhan Airtanah Dan Groundwater Storage Berdasarkan Perhitungan Metode Baseflow Recession Pada Cekungan Airtanah Bandung-Soreang, Jawa Barat. *Indonesia Science Day in Science Summit UNGA77*.
- Rychkov, I., Brasington, J., & Vericat, D. (2012). Computational and methodological aspects of terrestrial surface analysis based on point clouds. *Computers & Geosciences*, 42(64–70).
<https://doi.org/10.1016/j.cageo.2012.02.011>

- Sagita, A. F., & Widiyanto. (2012). Penilaian Tingkat Bahaya Lahar Hujan Di Sungai Code. *Jurnal Bumi Indonesia*, 1(3).
- Saroinsong, H. S., Poekoel, V. C., & Manembu, P. D. (2018). Rancang Bangun Wahana Pesawat Tanpa Awak (Fixed Wing) Berbasis Ardupilot. *Jurnal Teknik Elektro dan Komputer*, 7(1), 73–84.
<https://ejournal.unsrat.ac.id/v3/index.php/elekdankom/article/view/19195>
- Schenk, T. (2005). Introduction to Photogrammetry. *The Ohio State University, Columbus*, 106. http://gscphoto.ceegs.ohio-state.edu/courses/GeodSci410/docs/GS410_02.pdf
- Snavely, N., Seitz, S., & Szeliski, R. (2008). Modeling the World from Internet Photo Collections. *International Journal of Computer Vision*, 80(2), 182–210.
- Soeta'at. (1994). *Diktat Fotogrametri Analitik*. Jurusan Teknik Geodesi Fakultas Teknik Universitas Gadjah Mada.
- Subakti, B. (2017). Pemanfaatan Foto Udara UAV untuk Pemodelan Bangunan 3D metode Otomatis. *Jurnal Spectra*, 15(30).
- Sudarmadji, Werdiningsih, & Larasati, A. (2014). Paradigma Pengelolaan Sumberdaya Air. In *Pengelolaan Sumberdaya Air Terpadu* (hal. 1–35). Gadjah Mada University Press.
- Sunandar, I., & Syarifudin, D. (2014). LiDAR: Penginderaan Jauh Sensor Aktif dan Aplikasinya di Bidang Kehutanan. *Jurnal Planologi Unpas*, 1(2).
- Sutanto. (1983). *Pengetahuan dasar fotogrametri*. Dep. P & K Universitas Gadjah Mada Fak. Geografi.
- Taud, H. (1999). DEM generation by contour line dilation. *Computers & Geosciences*, 25(7), 775–783. [https://doi.org/https://doi.org/10.1016/S0098-3004\(99\)00019-9](https://doi.org/https://doi.org/10.1016/S0098-3004(99)00019-9)
- Turnipseed, D. P., & Sauer, V. B. (2010). *Discharge Measurements at Gaging*

Stations Techniques and Methods 3-A8. U.S. Geological Survey.

<https://doi.org/10.3133/tm3A8>

Vatankhah, A. R., Ghafari, S., & Mazdeh, A. M. (2015). New and improved hydraulic radius for channels of the second kind. *Ain Shams Engineering Journal*, 6(3), 767–773.

<https://doi.org/https://doi.org/10.1016/j.asej.2015.02.003>

Verstappen, H. (2013). *Garis Besar Geomorfologi Indonesia (Diterjemahkan oleh Sutikno)*. Gadjah Mada University Press.

Waterman, B. R., Alcantar, G., Thomas, S. G., & Kirk, M. F. (2022).

Spatiotemporal variation in runoff and baseflow in watersheds located across a regional precipitation gradient. *Journal of Hydrology: Regional Studies*, 41.

<https://doi.org/https://doi.org/10.1016/j.ejrh.2022.101071>

Wehr, A., & Lohr, U. (1999). Airborne laser scanning—an introduction and overview. *ISPRS Journal of Photogrammetry and Remote Sensing*, 54(2–3), 68–82. [https://doi.org/https://doi.org/10.1016/S0924-2716\(99\)00011-8](https://doi.org/https://doi.org/10.1016/S0924-2716(99)00011-8)

Wolf, P. R. (1983). *Elements of photogrammetry: with air photo interpretation and remote sensing* (2 ed.). McGraw-Hill.

Wolf, P. R., Dewitt, B., & Wilkinson, B. (2014). *Elements of Photogrammetry with Applications In GIS*. Mc Graw-Hill Education.

Woods, A. J. (2012). Crosstalk in stereoscopic displays: a review. *Journal of Electronic Imaging*, 21(4).

<https://doi.org/https://doi.org/10.1117/1.JEI.21.4.040902>

Yadav, S. K., Singh, S. K., Gupta, M., & Srivastava, P. K. (2014). Morphometric analysis of Upper Tons basin from Northern Foreland of Peninsular India using CARTOSAT satellite and GIS. *Geocarto International*, 29(8), 895–914. <https://doi.org/10.1080/10106049.2013.868043>

Yen, B. C., & González-Castro, J. A. (2000). Open-Channel Capacity

Determination Using Hydraulic Performance Graph. *Journal of Hydraulic Engineering*, 126(2). [https://doi.org/https://doi.org/10.1061/\(ASCE\)0733-9429\(2000\)126:2\(112\)](https://doi.org/10.1061/(ASCE)0733-9429(2000)126:2(112))

Yilmaz, M., & Uysal, M. (2016). Comparison of data reduction algorithms for LiDAR-derived digital terrain model generalisation. *Area*, 48(4). <https://doi.org/10.1111/area.12276>

Zhang, Z., Wang, X., Fan, T., & Xu, L. (2012). River surface target enhancement and background suppression for unseeded LSPIV. *Flow Measurement and Instrumentation*, 30(99–111). <https://doi.org/10.1016/j.flowmeasinst.2012.12.002>