

DAFTAR PUSTAKA

- Abadi, AL. 2003. Ilmu Penyakit Tumbuhan 3. Bayu Media. Malang. 145 hlm
- Agrios, G. N. 2005. *Plant Pathology* (5th ed.). Academic Press.
- Ahmed, M., Jones, R., & Williams, T. 2020. Temperature Effects on Viral Infection Dynamics. *Plant Pathology Journal*, 34(2), 123-135.
- Akhter, A, SAKhtar, M Saeed, & S Mansoor. 2014. Chili leaf curl betasatellite enhances symptoms induced by tomato leaf curl new Delhi virus, a bipartite begomovirus. *International Journal of Agriculture and Biology*. 16(6): 1225–1228.
- Ali, M., Bano, A., & Ali, A. 2021. "Advances in Chili Pepper (*Capsicum annuum*) Cultivation and Management Practices." *Horticultural Research*, 8(1), 31-45.
- Anderson, K., & Gaston, K. J. 2013. *Lightweight unmanned aerial vehicles will revolutionize spatial ecology*. *Frontiers in Ecology and the Environment*.
- Ariyanti, NA. 2014. Mekanisme infeksi virus kuning cabai (Pepper Yellow Leaf Curl Virus) dan pengaruhnya terhadap proses fisiologi tanaman cabai. In Seminar Nasional IX Pendidikan Biologi FKIP UNS. Surakarta : FKIP Univ. Sebelas Maret, 07 Juli 2012, pp. 682–686.
- Ayuningtyas, A., Basukesti, A., & Retnowati, N. D. 2012. Penerapan Metode Gerakan Obyek Untuk Pengambilan Citra Digital Pada Obtion Remote Versi 1.0. *Compiler*, 1(1).
- Badan Pusat Statistik Sumbar. 2022. Produksi Tanaman Sayuran Buah Semusim (Ton). BPS-Statistik Indonesia
- Badan Pusat Statistik. 2018. Statistik Tanaman Sayuran dan Buah-buahan Semusim. BPS-Statistik Indonesia
- Bahri, S. 2018. Transformasi Citra Biner Menggunakan Metode Thresholding Dan Otsu Thresholding. *E-JURNAL JUSITI: Jurnal Sistem Informasi dan Teknologi Informasi*, 7(2), 196-203.
- Bhatia, A., Sharma, R., & Kumar, M. 2015. *Effect of Monoculture on Disease Incidence in Plants*. *Journal of Agricultural Sciences*, 23(4), 67-75.
- Camargo, A. P., R. A. F. A. Silva, & Ribeiro, T. 2020. Advances in Plant Disease Detection: From Early Diagnosis to Automated Monitoring Systems. *Computers and Electronics in Agriculture*, 176, 105627.
- Dahal, S., Wright, M., & Garofalo, S. 2019. Temperature Effects on the Dynamics of Tomato Yellow Leaf Curl Virus in Solanaceous Crops. *Plant Pathology Journal*, 34(4), 234-245.
- Dai, Q., Liu, J., & Yang, J. 2020,. Image Analysis for Plant Disease Detection: RGB-Based Thresholding Techniques. *Journal of Computational Biology*, 27(8), 1234-1245.

- De Barro PJ, Hidayat SH, Frohlich D, Subandiyah S, & Ueda S. 2008. A virus and its vector, pepper yellow leaf curl virus and *Bemisia tabaci*, two new invaders of Indonesia. *Biological Invasions* 10:411–433. doi: <https://doi.org/10.1007/s10530-007-9141-x>.
- Dey, S., Pal, S., & Basak, S. 2019. Automated detection of plant disease from images using RGB and depth sensors. *Journal of Computer Vision and Image Processing*, 9(2), 32-45.
- Dhuhita, W. M. P. 2015. Clustering Menggunakan Metode K-Means Untuk Menentukan Status Gizi Balita. *Jurnal Informatika*, 15(2), 160-174.
- Direktorat Bina Perlindungan Tanaman. 2010. Laporan tahunan direktorat jenderal tanaman pangan tahun 2010. Jakarta : Departemen Pertanian.
- Duriat A. S. 2009. Pengendalian Penyakit Kuning Keriting pada Tanaman Cabai Kecil. Balai Penelitian Tanaman Sayuran. Jl. Tangkuban Parahu 517 Lembang, Bandung, (5). Hlm 43-45.
- Effendi, M., Fitriyah, F., & Effendi, U. 2017. Identifikasi Jenis dan Mutu Teh Menggunakan Pengolahan Citra Digital dengan Metode Jaringan Syaraf Tiruan. *Teknotan: Jurnal Industri Teknologi Pertanian*, 11(2), 67-76.
- El-Basyouny, H., Lang, S., & Morsy, M. (2018). Effects of flight altitude on the quality of UAV imagery for mapping and monitoring vegetation. *ISPRS Journal of Photogrammetry and Remote Sensing*, 142, 165-174.
- Elbaz, M., Gad, N., & Cohen, S. 2016. "Effect of Temperature on the Development and Transmission of Tomato Yellow Leaf Curl Virus." *Journal of Virology*, 90(12), 5600-5611.
- Ellis, M. A., Miller, S. A., & Jones, R. E. 2014. *The Cucumber Mosaic Virus (CMV) and Pepper Yellow Mottle Virus (PYMV) Infections in Capsicum annuum: Impact on Yield and Quality*. *Journal of Plant Pathology*, 96(4), 629-639.
- Fadila, A.A. 2019. Aplikasi Jaringan Syaraf Tiruan dalam Memprediksi Penjualan Mobil pada PT.Hadji Kalla Sengkang. [Skripsi]. Universitas Islam Negeri Makassar.
- Fahmi H., Zarlis M., Mawengkang H., & Zendrato N. 2019. "The Using of Thresholding and Region Merging Algorithm for Correcting the Multiple Choice Answer Sheets," in *Journal of Physics: Conference Series*, 1255. 12047.
- Gonzalez, R. C., & Woods, R. E. 2008. *Digital Image Processing* (3rd ed.). Prentice Hall.
- Gonzalez, R. C., & Woods, R. E. 2018. *Digital Image Processing* (4th ed.). Pearson.
- Gordon, M. H., & Kavanagh, T. A. 2020. "Capsicum annuum: A Review of the Health Benefits and Agricultural Practices." *Journal of Agricultural and Food Chemistry*, 68(25), 6789-6798.

- Gunaeni, N., Setiawati, W., Murtiningsih, R., & Rubiati, T. 2008. Penyakit Virus Kuning dan Vektornya Serta Cara Pengendaliannya pada Tanaman Sayuran.
- Guo M.A., Wang, & Zhang S.T. 2021. Hyperspectral remote sensing monitoring of Chinese chestnut red mite diseases and insect pests in UAV. *Trans. Chin. Soc. Agric.*
- Hadi, H. M., Tarwotjo, U., & Rahardian, R. 2009. *Biologi Insecta Entomologi*. Jakarta: Graha ilmu.
- Haikal, M. R., Nirwanto, H., & Mujoko, T. 2022. Kajian Pola Sebaran Penyakit Bulai Dengan Analisis Citra Drone. *Jurnal AGROHITA: Jurnal Agroteknologi Fakultas Pertanian Universitas Muhammadiyah Tapanuli Selatan*, 7(2), 242-248.
- Hastie, T., Tibshirani, R., & Friedman, J. 2009. *The Elements of Statistical Learning: Data Mining, Inference, and Prediction* (2nd ed.). Springer.
- Hasyim, A., Setiawati, W., & Liferdi, L. 2016. Kutu Kebul *Bemisia tabaci Gennadius* (Hemiptera: Aleyrodidae) Penyebar Penyakit Virus Mosaik Kuning pada Tanaman Terung. *Jurnal Iptek hortikultura* Vol. 17 (12) : 12-21.
- Heryanto, I. W. A., Artama, M., Segara, M. W., & Gunadi, I. G. A. 2020. Segmentasi Warna dengan Metode Thresholding. *Wahana Matematika dan Sains: Jurnal Matematika, Sains, dan Pembelajarannya*, 14(1), 54-64.
- Hestningsih, I. 2008. Pengolahan Citra. *Teknik Informatika*.
- Holik & Bachtiar. 2019. Prediksi Hasil Panen Padi Menggunakan Pesawat Tanpa Awak. *Jurnal Ilmiah Rekayasa Pertanian dan Biosistem*. ISSN 2301-8119.
- Hossain, M. K., & Meng, Q. 2020. A thematic mapping method to assess and analyze potential urban hazards and risks caused by flooding. *Computers, Environment and Urban Systems*, 79, 101417. Kogan, M. and S.G. Turnipseed. 1987. Ecology and Management of Soybean Arthropods. *Ann. Rev. Entomol.* 32:507–538.
- Howard, L. R., S. T. Talcott, C. H. Brenes, & B. Villalon. 2000. Changes in phytochemical and antioxidant activity of selected pepper cultivars (*Capsicum* species) as influenced by maturity. *Journal of Agricultural and Food Chemistry* 48: 1713-1720.
- Huang, W., Wang, T., & Li, X. 2019. Evaluation of UAV-based Remote Sensing for Agricultural Applications. *Remote Sensing*, 11(23), 2764.
- James, G., Witten, D., Hastie, T., & Tibshirani, R. 2013. *An Introduction to Statistical Learning: With Applications in R*. Springer.
- Jamil, A. 2012. *Budidaya Sayuran Di Pekarangan*. Balai Pengkaji Teknologi Pertanian (BPTP). Medan Sumatera Utara.
- Jiang, H., Liu, D., & Deng, Z. 2017. A new approach to detect the change of vegetation from Landsat time-series imagery based on the pixel-based and object-based change detection techniques. *Remote Sensing*, 9(6), 586.

- Jones, D. R., & Naidu, R. A. (2019). *Virus Diseases of Plants* (2nd ed.). Academic Press.
- Kabiri, K., Rezai, H., & Moradi, M. 2018. Mapping of the corals around Hendorabi Island (Persian Gulf), using WorldView-2 standard imagery coupled with field observations. *Marine Pollution Bulletin*, 129(1), 266-274.
- Kapoor, R., Shukla, V., & Srivastava, S. 2010. *Capsicum annum*: A comprehensive review of its physiological and biochemical properties. *Journal of Plant Studies*, 1(2), 53-70.
- Khan, M. A., Khan, S. M., & Khan, M. I. 2019. *Agricultural Disease Detection using Image Processing Techniques: A Review*. *Journal of Computer Science and Technology*, 34(3), 523-539.
- Kohavi, R. 1995. A study of cross-validation and bootstrap for accuracy estimation and model selection. *International Joint Conference on Artificial Intelligence (IJCAI)*, 1137-1143.
- Kumar, P., Kaur, G., & Kumar, R. 2017. Image processing techniques for detection of plant diseases. *International Journal of Advanced Research in Computer Science*, 8(4), 103-109.
- Lailatussyukriyah, L. L. 2015. Indonesia dan Konsepsi Negara Agraris. *SEUNEUBOK LADA*, 2(1), 1-8.
- Liu, Y., Zhang, X., & Zheng, Z. 2019. "Impact of altitude on color accuracy and image resolution in drone photography." *Journal of Remote Sensing Technology*, 15(2), 104-113.
- Mahajan, G., Sharma, P., & Kumar, P. 2017. *Irrigation Practices and Their Impact on Plant Health and Disease*. *Crop Protection Journal*, 42(3), 101-112.
- Marwoto & Inayati, A. 2011. Pengendalian Kutu Kebul Pada Kedelai. *Jurnal Iptek Tanaman Pangan* Vol. 6 No. 1 – 2011. Peneliti Pada Balai Penelitian Tanaman Kacang Kacangan Dan Umbi-Umbian, Malang.
- MATLAB. 2023. *Image Processing Toolbox User's Guide*. MathWorks. Retrieved from <https://www.mathworks.com/help/images/>
- Meyer, D. M., McKenzie, M. R., & Liu, H. 2017. Evaluating Image-Based Methods for Identifying Plant Diseases. *International Journal of Remote Sensing*, 38(12), 3445-3460.
- Mohanty, S. P., Hughes, D. P., & Salathé, M. 2016. *Using Deep Learning for Image-Based Plant Disease Detection*. *Frontiers in Plant Science*, 7, 1419.
- Nur Aeni, A. 2007. Kajian Kestabilan Produktivitas Cabai Keriting Di Daerah Endemis Virus Kuning dengan Optimalisasi Nutrisi Tanaman. Tesis. UGM.
- Ottosen, T. B., Petch, G., Hanson, M., & Skjøth, C. A. 2020. Tree cover mapping based on Sentinel-2 images demonstrate high thematic accuracy in Europe. *International Journal of Applied Earth Observation and Geoinformation*, 84, 101947.

- Petrognani, S., & Robert, E. 2020. Dating without dates: Stylistic and thematic chronologies in the Paleolithic painted caves of Les Bernoux and Saint-Front (Dordogne, France). *Journal of Archaeological Science: Reports*, 31, 102260.
- Prajnanta F. 2011. *Mengatasi Permasalahan Betanam Cabai*. Jakarta Penebar Swadaya.
- Puhr, K., Schultz, S., Pikelj, K., Petricioli, D., & Bakran-petricioli, T. 2014. Science of the Total Environment The performance, application and integration of various seabed classification systems suitable for mapping *Posidonia oceanica* (L.) Delile meadows. *Science of the Total Environment*, The, 470-471, 364-378.
- Putra, A. B. W., Aryuna, M. T., & Malani, R. 2021. Kompresi Citra Digital Dengan Basis Komponen Warna RGB Menggunakan Metode K-Means Clustering. *Jurnal Komputer Terapan*, 7(1), 14-23.
- Rafaelli, S. G., Montgomery, D. R., & Greenberg, H. M. 2001. *A comparison of thematic mapping of erosional intensity to GIS-driven process models in an Andean drainage basin*. 244, 33-42.
- Ramoelo, A., Skidmore, A. K., & Cho, M. A. 2015. *Detection of Plant Disease in Remote Sensing Images*. International Journal of Remote Sensing.
- Rashid, A., Ali, M., & Khan, M. 2019. *Nutrient Management and Plant Resistance: Interactions with Pest and Disease*. International Journal of Plant Science, 34(2), 85-92.
- Rulaningtyas, R., Suksmono, A. B., Mengko, T. L., & Saptawati, G. P. 2015. Segmentasi citra berwarna dengan menggunakan metode clustering berbasis patch untuk identifikasi mycobacterium tuberculosis. *Jurnal Biosains Pascasarjana*, 17(1), 19-25.
- Ryu, J. H., Choi, J. K., & Lee, Y. K. 2014. Potential of remote sensing in management of tidal flats: A case study of thematic mapping in the Korean tidal flats. *Ocean & coastal management*, 102, 458-470.
- Septariani, DN, Hadiwiyono, P Harsono, & M Mawar. 2020. Pemanfaatan minyak serai sebagai bahan aktif nanovirusida untuk pengendalian penyakit kuning pada cabai. *PRIMA: Journal of Community Empowering and Services*. 4(2): 51. doi: 10.20961/prima.v4i2.39797.
- Shofiyanti, R. 2011. Teknologi Pesawat Tanpa Awak Untuk Pemetaan Dan Pemantauan Tanaman Dan Lahan Pertanian. Bogor: Jurnal Informatika Pertanian, Vol. 20 No.2, Desember 2011 : 58 – 64.
- Simatupang, J. W., Rohmawan, E., & Junior, Z. 2021. Pentingnya Drone Sprayer di Sektor Pertanian Khususnya Bagi Petani Indonesia.
- Simpson, M. G., 2010. *Plant Systematics*. Elsevier. Burlington. USA. Inc. Publishers, Sunderland, Massachusetts, USA.

- Singh, D., Yadav, R. N., Singh, D. K., & Kumari, S. 2018. Information Management System among the Vegetable Growers in Western Uttar Pradesh. *Indian Journal of Extension Education*, 54(1), 44-47.
- Singh, R., Kumar, V., & Sinha, P. 2021. "Assessment of disease intensity and its impact on the management of yellow vein mosaic virus in chili peppers." *Journal of Plant Diseases and Protection*, 128(2), 315-326.
- Smith, D. A. 2016. Online interactive thematic mapping: Applications and techniques for socio-economic research. *Computers, Environment and Urban Systems*, 57, 106-117.
- Smith, J., Brown, L., & Davis, A. 2021. "Atmospheric effects on image quality and color accuracy at different drone altitudes." *International Journal of Drone Research*, 22(4), 239-250.
- Steiniger, S., & Hunter, A. J. 2013. The 2012 free and open source GIS software map—A guide to facilitate research, development, and adoption. *Computers, environment and urban systems*, 39, 136-150.
- Suharto. 2007. Pengenalan dan Pengendalian Hama Tanaman Pangan. Penerbit ANDI. Yogyakarta. 120 halaman.
- Sutanto, A., Prasetyo, B., & Nugroho, Y. 2024. *Analisis citra digital untuk deteksi penyakit tanaman cabai: Pendekatan segmentasi berbasis thresholding*. Universitas Terbuka Press.
- Szeliski, R. 2010. *Computer Vision: Algorithms and Applications*. Springer.
- Thomas, R. F., Kingsford, R. T., Lu, Y., Cox, S. J., Sims, N. C., & Hunter, S. J. 2015. Mapping inundation in the heterogeneous floodplain wetlands of the Macquarie Marshes, using Landsat Thematic Mapper. *Journal of Hydrology*, 524, 194-213.
- Tjandra, E., 2011. *Panen Cabai Rawit Di Polybag*. Yogyakarta: Cahaya Atma Pustaka.
- Tsou, C. S. 1996. *Capsicum: Production, Research, and Development*. Asian Vegetable Research and Development Center.
- Tuhumury, GN, & HR Amanupunyo. 2018. Kerusakan tanaman cabai akibat penyakit virus di Desa Waimital Kecamatan Kairatu. *Agrologia*. 2(1): doi: 10.30598/a.v2i1.276.
- Ukoro, A. I. 2018. Analisis Citra Drone untuk monitoring kesehatan tanaman kelapa sawit. *AGROTEKNOSE (Jurnal Teknologi dan Enjiniring Pertanian)*, 8(2).
- Van Steenis, C. G. J., 2002, Flora untuk Sekolah di Indonesia. Diterjemahkan oleh Moeso Sarjowinoto, Edisi Ke 6. Prodni Paramita, Jakarta, 458.
- Wahyudi & M. Topan. 2011. *Panen Cabai di Pekarangan Rumah*. Jakarta : Agromedia Pustaka.

- Wang, J., Shi, T., Yu, D., Teng, D., Ge, X., Zhang, Z. & Wu, G. 2020. Ensemble machine-learning-based framework for estimating total nitrogen concentration in water using drone-borne hyperspectral imagery of emergent plants: A case study in an arid oasis, NW China. *Environmental Pollution*, 266, 115412.
- Wang, J., Zhang, S., & Yang, Y. 2018. "Temperature-Dependent Dynamics of Viral Pathogens in Crop Plants." *Agricultural and Forest Meteorology*, 250-251, 90-102.
- Wang, X. 2005. Integrating GIS, simulation models, and visualization in traffic impact analysis. *Computers, Environment and Urban Systems*, 29(4), 471-496.
- Widyaningsih, M. 2016. Identifikasi Kematangan Buah Apel Dengan Gray Level Co-Occurrence Matrix (GLCM). *Jurnal saintekom*, 6(1), 71-88.
- Wikantika. K. 2009. Unmanned Mapping Technology: Development and Applications. Workshop Sehari "Unmanned Mapping Technology: Development and Applications" (UnMapTech2008). Bandung, Indonesia.
- Windarningsih, M, MT Fauzi, A Rohyadi, & I Muthahanas. 2018. Penyebaran penyakit virus daun menguning dan keriting pada cabai rawit di Kabupaten Lombok Utara. *Crop Agro*. 11: 145–150.
- Wiradharma, P. A. K., Purwanto, Y., & Purboyo, T. W. 2015. Analisis Sistem Deteksi Anomali Trafik Menggunakan Algoritma Clustering Isodata (Self-Organizing Data Analysis Technique) Dengan Euclidean Distance. *eProceedings of Management*, 2(2).
- Yao, Y., Yang, Z., & Li, X. 2018. *RGB-D Image Segmentation for Semantic Understanding of Scenes*. *Journal of Computational Science*, 27, 290-299.
- Yuan, X., Yang, Z., & Zhang, Y. 2020. "Molecular and ecological insights into the transmission of *Pepper yellow vein virus* by *Bemisia tabaci*." *Journal of Pest Science*, 93(1), 103-115.
- Yuliani, Hidayat P & Sartiani D. 2006. Identifikasi kutu kebul dari beberapa tanaman inang dan perkembangan populasinya. *Jurnal Entomologi*. Vol 3 (2): 41-49.
- Zhang, L., Wang, H., & Liu, Q. 2020. Detailed analysis of color fidelity in low-altitude drone imagery. *Remote Sensing Reviews*, 33(6), 567-578.
- Zhang, Y. 2000. *A Survey on Image Segmentation Techniques*. *Pattern Recognition*, 29(8), 1167-1186.
- Zhang, Y., Liu, S., & Yang, X. 2021. "Application of drone technology for pest monitoring and management in agriculture." *Remote Sensing*, 13(5), 872.
- Zhao, Z., Li, X., & Li, X. 2016. *A Review of Remote Sensing Image Segmentation: A Comparative Analysis*. *Remote Sensing*, 8(7), 585.

- Zhu, X., Xie, Y., & He, Q. 2018. Optimal flight planning for UAVs in photogrammetric mapping. *ISPRS Journal of Photogrammetry and Remote Sensing*, 141, 144-156.
- Zhu, X., Xu, W., & Zhang, Y. 2019. "Image preprocessing for remote sensing applications: A review." *Journal of Remote Sensing*, 11(21), 2484.
- Zhu, Z., Li, H., & Wang, X. 2021. "Integrated pest management strategies for *Bemisia tabaci* and their effectiveness in controlling plant virus diseases." *Agricultural Sciences*, 12(4), 377-392.