

DAFTAR PUSTAKA

- [1] A. Permatasari and A. Zainuddin, "Daya Saing Buah Tropis Indonesia di Pasar Asia Tenggara," *Journal of Food System and Agribusiness (JoFSA)*, vol. 8, no. 1, pp. 83–92, Apr. 2024, doi: 10.25181/jofsa.v8i1.4090.
- [2] "FAO and MoA Start the Food Loss Study in Indonesia." Accessed: Dec. 18, 2025. [Online]. Available: <https://www.fao.org/indonesia/news/detail/FAO-and-MoA-Start-the-Food-Loss-Study-in-Indonesia>
- [3] H. K. Purwadaria, "Issues and Solutions of Fresh Fruit Export in Indonesia," Department of Agricultural Engineering, Bogor Agricultural University, Indonesia.
- [4] S. W. Chung, Y. J. Jang, S. Kim, and S. C. Kim, "Spatial and Compositional Variations in Fruit Characteristics of Papaya (*Carica papaya* cv. Tainung No. 2) during Ripening," *Plants*, vol. 12, no. 7, Apr. 2023, doi: 10.3390/plants12071465.
- [5] "Review the Extent and Cause of Post Harvest Loss of Fruits and Vegetables in Ethiopia," *J Biol Agric Healthc*, Jul. 2021, doi: 10.7176/jbah/11-13-01.
- [6] Asian Development Bank, *Agricultural Value Chain Development in Selected Asian Countries: Analysis of Fruit and Vegetable Value Chains in Indonesia*, Project No. 52239-001, Jun. 2022. [7] I. Rojas Santelices, S. Cano, F. Moreira, and Á. Peña Fritz, "Artificial Vision Systems for Fruit Inspection and Classification: Systematic Literature Review," Mar. 01, 2025, *Multidisciplinary Digital Publishing Institute (MDPI)*. doi: 10.3390/s25051524.
- [8] M. Rizzo, M. Marcuzzo, A. Zangari, A. Gasparetto, and A. Albarelli, "Fruit Ripeness Classification: a Survey," Mar. 2023, [Online]. Available: <http://arxiv.org/abs/2212.14441>
- [9] D. Mirwansyah and Arief Wibowo, "FRUIT IMAGE CLASSIFICATION USING DEEP LEARNING ALGORITHM: SYSTEMATIC LITERATURE REVIEW (SLR)," *MULTICA SCIENCE AND*

- TECHNOLOGY (MST) JOURNAL*, vol. 2, no. 2, pp. 120–123, Oct. 2022, doi: 10.47002/mst.v2i2.356.
- [10] F. Rahardika Bahari Putra, M. Rizki Setyawan, R. Soekarta, and L. Jupriadi Fakhri, “Implementasi Deep Learning Menggunakan CNN Untuk Klasifikasi Tingkat Kematangan Buah Jeruk Berbasis Android,” 2024. [Online]. Available: <http://e-journal.sari-mutiara.ac.id/index.php/7>
 - [11] A. Dosovitskiy *et al.*, “An Image is Worth 16x16 Words: Transformers for Image Recognition at Scale,” Jun. 2021, [Online]. Available: <http://arxiv.org/abs/2010.11929>
 - [12] F. Sthevanie, U. N. Wisesty, G. S. Wulandari, and K. N. Ramadhani, "Cocoa Ripeness Classification Using Vision Transformer," *Journal of Applied Engineering and Technological Science*, vol. 6, no. 2, pp. 984–996, 2025.
 - [13] A. Pangestu, B. Purnama, and R. Risnandar, “Vision Transformer untuk Klasifikasi Kematangan Pisang,” *Jurnal Teknologi Informasi dan Ilmu Komputer*, vol. 11, no. 1, pp. 75–84, Feb. 2024, doi: 10.25126/jtiik.20241117389.
 - [14] W. Broto, Ed., *Teknologi Penanganan Pascapanen Buah untuk Pasar*. Jakarta: Balai Besar Litbang Pascapanen Pertanian, Badan Penelitian dan Pengembangan Pertanian, Kementerian Pertanian, 2024.
 - [15] H. Akbar, Ed., *Teknologi Pascapanen dan Pengolahan Hasil Pertanian*. Bandung, Indonesia: CV. Media Sains Indonesia, Sep. 2025.
 - [16] H. P. Susetyo, “Penanganan OPT Pascapanen pada Komoditas Buah–Buahan,” Direktorat Perlindungan Hortikultura, Kementerian Pertanian Republik Indonesia, Jakarta, Indonesia.
 - [18] T. Ihsan and V. Derosya, “Tinjauan Strategi Pengemasan Buah dan Sayur dalam Memerangi Food Loss dalam Rantai Pasokan Pascapanen di Indonesia,” *Jurnal Ilmu Lingkungan*, vol. 22, no. 4, pp. 1078–1087, Jun. 2024, doi: 10.14710/jil.22.4.1078-1087.
 - [19] E. C. Harvey, “Maturity Indices for Quality Control and Harvest Maturity,” in *Postharvest Physiology and Storage of Tropical and Subtropical Fruits*, CAB International, pp. 39–55.

- [20] N. Aherwadi, U. Mittal, J. Singla, N. Z. Jhanjhi, A. Yassine, and M. S. Hossain, "Prediction of Fruit Maturity, Quality, and Its Life Using Deep Learning Algorithms," *Electronics (Switzerland)*, vol. 11, no. 24, Dec. 2022, doi: 10.3390/electronics11244100.
- [21] R. Nithya, B. Santhi, R. Manikandan, M. Rahimi, and A. H. Gandomi, "Computer Vision System for Mango Fruit Defect Detection Using Deep Convolutional Neural Network," *Foods*, vol. 11, no. 21, Nov. 2022, doi: 10.3390/foods11213483.
- [22] A. Bhargava and A. Bansal, "Fruits and vegetables quality evaluation using computer vision: A review," Mar. 01, 2021, *King Saud bin Abdulaziz University*. doi: 10.1016/j.jksuci.2018.06.002.
- [23] R. P. Fhonna, Y. Afrillia, V. Ilhadi, J. Aqmal, and T. M. Arief Afwan, "Pendeteksian Masker Secara Real-Time Menggunakan Tensorflow Untuk Pencegahan Covid-19 di Prodi Sistem Informasi Universitas Malikussaleh," *G-Tech: Jurnal Teknologi Terapan*, vol. 6, no. 2, pp. 183–190, Sep. 2022, doi: 10.33379/gtech.v6i2.1689.
- [24] C. Gajiwala, "The Rise of Deep Learning and Neural Networks: Revolutionizing Artificial Intelligence," *European Journal of Computer Science and Information Technology*, vol. 13, no. 17, pp. 88–98, Apr. 2025, doi: 10.37745/ejcsit.2013/vol13n178898.
- [25] R. Pathak, "CLASSIFICATION OF FRUITS USING CONVOLUTIONAL NEURAL NETWORK AND TRANSFER LEARNING MODELS," 2021.
- [26] "Analisis Kinerja Content-based Image Retrieval Berbasis Augmented Reality Menggunakan Metode You Only Look Once Untuk Makanan Nasional Indonesia | Semantic Scholar." Accessed: Jul. 18, 2025. [Online]. Available: <https://www.semanticscholar.org/paper/Analisis-Kinerja-Content-based-Image-Retrieval-You-Firdaus-Wibowo/97555c1c2175fd0b0b52409b09b6b2e485361384>
- [27] P. Mehrani and J. K. Tsotsos, "Self-attention in vision transformers performs perceptual grouping, not attention," *Front Comput Sci*, vol. 5, 2023, doi: 10.3389/fcomp.2023.1178450.

- [28] R. C. Nair, A. Gatreddi, M. Rao, and Muralidharavn, “Visual Perception Transformer: Robust image understanding on unseen transformations across wide-ranging dataset sizes,” in *Proceedings of 4th International Conference on AI-ML Systems, AIMLSystems 2024*, Association for Computing Machinery, Inc, Mar. 2025. doi: 10.1145/3703412.3703419.
- [29] I. Goodfellow, J. Pouget-Abadie, M. Mirza, B. Xu, D. Warde-Farley, S. Ozair, A. Courville, and Y. Bengio, “Generative Adversarial Networks,” *Communications of the ACM*, vol. 63, no. 11, pp. 139–144, 2020.
- [30] S. O. Purba, “Klasifikasi Penyakit Mata pada Manusia dengan Menggunakan Model Arsitektur Vision Transformers,” Skripsi, Program Studi Teknik Informatika, Universitas Medan Area, Medan, Indonesia, 2024.
- [31] Y. Zhou, C. Yang, P. Wang, C. Wang, X. Wang, and N. N. Van, “Date of publication xxxx 00, 0000, date of current version xxxx 00, 0000. ViT-FuseNet: MultiModal Fusion of Vision Transformer for Vehicle-Infrastructure Cooperative Perception”, doi: 10.1109/ACCESS.2023.0322000.
- [32] S. Kabir *et al.*, “Smartphone image dataset for machine learning-based monitoring and analysis of mango growth stages,” *Data Brief*, vol. 61, Aug. 2025, doi: 10.1016/j.dib.2025.1111780.
- [33] D. Mirwansyah, A. Solichin, R. Hardi, N. Wanti Wulan Sari, N. Arista Rizki, and D. Aldo, “Augmentasi Citra Pohon Kelapa Sawit untuk Deteksi Objek Berbasis Deep Learning,” vol. 9, p. 2025, doi: 10.47002/metik.v9i1.1001.
- [34] Suharjito *et al.*, “Annotated Datasets of Oil Palm Fruit Bunch Piles for Ripeness Grading Using Deep Learning,” *Sci Data*, vol. 10, no. 1, Dec. 2023, doi: 10.1038/s41597-023-01958-x.
- [35] S. Sathyanarayanan, “Confusion Matrix-Based Performance Evaluation Metrics,” *African Journal of Biomedical Research*, pp. 4023–4031, Nov. 2024, doi: 10.53555/ajbr.v27i4s.4345.

- [36] M. Grandini, E. Bagli, and G. Visani, “Metrics for Multi-Class Classification: an Overview,” Aug. 2020, [Online]. Available: <http://arxiv.org/abs/2008.05756>
- [37] I. K. Mirani, C. Tianhua, M. A. A. Khan, S. M. Aamir, and W. Menhaj, “Object Recognition in Different Lighting Conditions at Various Angles by Deep Learning Method,” *Journal of Xi'an University of Architecture & Technology*, vol. XIV, no. 1, pp. 158–168, 2022.
- [38] Anonymous Authors, “The Robustness Limits of SoTA Vision Models to Natural Variation,” submitted to International Conference on Learning Representations (ICLR), 2023.
- [39] Z. Li, M. Paolieri, and L. Golubchik, “A Study on Inference Latency for Vision Transformers on Mobile Devices,” Oct. 2025, [Online]. Available: <http://arxiv.org/abs/2510.25166>
- [40] J. Chen and X. Ran, “Deep Learning with Edge Computing: A Review,” Aug. 01, 2019, *Institute of Electrical and Electronics Engineers Inc.* doi: 10.1109/JPROC.2019.2921977.
- [41] Y. Li, G. Yuan, Y. Wen, J. Hu, G. Evangelidis, S. Tulyakov, Y. Wang, and J. Ren, “EfficientFormer: Vision Transformers at MobileNet Speed,” in *Advances in Neural Information Processing Systems (NeurIPS 2022)*, 2022.
- [42] D. Kim, A. Angelova, and W. Kuo, “Region-Aware Pretraining for Open-Vocabulary Object Detection with Vision Transformers,” Aug. 2023, [Online]. Available: <http://arxiv.org/abs/2305.07011>
- [43] K. Kraugusteeliana, H. A. Nasution, B. Triwahyono, M. Ikhwan, Z. Ardian, and A. Bintoro, “Aplikasi Pemilihan Lapangan Futsal Menggunakan Mobile-GIS dan GPS Dengan Metode Algoritma Dijkstra,” *Jurnal Informasi dan Teknologi*, pp. 59–66, Nov. 2023, doi: 10.60083/jidt.v5i4.417.