

## References

1. A. M. Abdelsalam and M. S. Sayed, "Real-time defects detection system for orange citrus fruits using multi-spectral imaging," in *Proc. IEEE 59th Int. Midwest Symp. Circuits Syst. (MWSCAS)*, Oct. 2016, pp. 1–4.
2. N. K. Bahia, R. Rani, A. Kamboj, and D. Kakkar, "Hybrid feature extraction and machine learning approach for fruits and vegetable classification," *Pertanika J. Sci. Technol.*, vol. 27, no. 4, pp. 1693–1708, 2019.
3. T. Tao and X. Wei, "A hybrid CNN–SVM classifier for weed recognition in winter rape field," *Plant Methods*, vol. 18, no. 1, p. 29, Dec. 2022.
4. Z. Zha, D. Shi, X. Chen, H. Shi, and J. Wu, "Classification of appearance quality of red grape based on transfer learning of convolution neural network," *Tech. Rep.*, 2023.
5. S. R. N. Appe, G. Arulselvi, and G. Balaji, "Tomato ripeness detection and classification using VGG based CNN models," *Int. J. Intell. Syst. Appl. Eng.*, vol. 11, no. 1, pp. 296–302, 2023.
6. R. G. de Luna, E. P. Dadios, A. A. Bandala, and R. R. P. Vicerra, "Size classification of tomato fruit using thresholding, machine learning, and deep learning techniques," *AGRIVITA J. Agricult. Sci.*, vol. 41, no. 3, pp. 586–596, Oct. 2019.
7. H. S. Mputu, A. Abdel-Mawgood, A. Shimada, and M. S. Sayed, "Tomato quality classification based on transfer learning feature extraction and machine learning algorithm classifiers," *IEEE Access*, vol. 12, pp. 8283–8295, 2024, doi: 10.1109/ACCESS.2024.3352745.
8. W. Xu, Y.-L. Fu, and D. Zhu, "ResNet and its application to medical image processing: Research progress and challenges," *Comput. Methods Programs Biomed.*, vol. 240, p. 107660, 2023, doi: 10.1016/j.cmpb.2023.107660.

9. C. Szegedy, V. Vanhoucke, S. Ioffe, J. Shlens, and Z. Wojna, "Rethinking the Inception Architecture for Computer Vision," in *Proc. IEEE Conf. Comput. Vis. Pattern Recognit. (CVPR)*, 2016, pp. 2818–2826, doi: 10.1109/CVPR.2016.308.
10. K. Dong, C. Zhou, Y. Ruan, and Y. Li, "MobileNetV2 Model for Image Classification," in *Proc. Int. Conf. Inf. Technol. Comput. Appl. (ITCA)*, 2020, pp. 476–480, doi: 10.1109/ITCA52113.2020.00106.
11. S. G. Siddarth and S. Chokkalingam, "DenseNet 121 Framework for Automatic Feature Extraction of Diabetic Retinopathy Images," in *Proc. Int. Conf. Emerg. Syst. Intell. Comput. (ESIC)*, 2024, pp. 338–342.
12. V.-T. Hoang and K.-H. Jo, "Practical Analysis on Architecture of EfficientNet," in *Proc. Int. Conf. Hum. Syst. Interact. (HSI)*, 2021, pp. 1–4.
13. W. Lai, T. Zhang, T. L. Lam, and Y. Gao, "Vision-Language Model-based Physical Reasoning for Robot Liquid Perception," in *Proc. 2024 IEEE/RSJ Int. Conf. Intelligent Robots and Systems (IROS)*, 2024, pp. 9652–9659.
14. X. Li, C. Wen, Y. Hu, Z. Yuan, and X. X. Zhu, "Vision-Language Models in Remote Sensing: Current progress and future trends," *IEEE Geoscience and Remote Sensing Magazine*, vol. 12, no. 2, pp. 32–66, 2024, doi: 10.1109/MGRS.2024.3383473.
15. J. Redmon, S. Divvala, R. Girshick, and A. Farhadi, "You Only Look Once: Unified, Real-Time Object Detection," in *Proc. 2016 IEEE Conf. Comput. Vis. Pattern Recognit. (CVPR)*, 2016, pp. 779–788, doi: 10.1109/CVPR.2016.91.
16. A. K. Sangaiah, F.-N. Yu, Y.-B. Lin, W.-C. Shen, and A. Sharma, "UAV T-YOLO-Rice: An Enhanced Tiny Yolo Networks for Rice Leaves Diseases Detection in Paddy Agronomy," *IEEE Trans. Network Sci. Eng.*, vol. 11, no. 6, pp. 5201–5216, 2024, doi: 10.1109/TNSE.2024.3350640.
17. J. Wang, T. Wang, W. Cai, L. Xu, and C. Sun, "Boosting Efficient Reinforcement Learning for Vision-and-Language Navigation With Open-Sourced LLM,"

- IEEE Robotics and Automation Letters*, vol. 10, no. 1, pp. 612–619, 2025, doi: 10.1109/LRA.2024.3511402.
18. S. S. Teja Gontumukkala, Y. S. Varun Godavarthi, B. R. Ravi Teja Gonugunta, R. Subramani, and K. Murali, “Analysis of Image Classification using SVM,” in *Proc. 2021 12th Int. Conf. Comput. Commun. Networking Technol. (ICCCNT)*, 2021, pp. 1–6, doi: 10.1109/ICCCNT51525.2021.9579803.
  19. X. Sun, L. Liu, H. Wang, W. Song, and J. Lu, “Image classification via support vector machine,” in *Proc. 2015 4th Int. Conf. Comput. Sci. Network Technol. (ICCSNT)*, 2015, vol. 1, pp. 485–489, doi: 10.1109/ICCSNT.2015.7490795.
  20. D. Patidar, B. C. Shah, and M. R. Mishra, “Performance analysis of K Nearest Neighbors image classifier with different wavelet features,” in *Proc. 2014 Int. Conf. Green Comput. Commun. Electr. Eng. (ICGCCEE)*, 2014, pp. 1–6, doi: 10.1109/ICGCCEE.2014.6922459.
  21. E. C. Ozan, E. Riabchenko, S. Kiranyaz, and M. Gabbouj, “A vector quantization based k-NN approach for large-scale image classification,” in *Proc. 2016 Int. Conf. Image Process. Theory, Tools Appl. (IPTA)*, 2016, pp. 1–6, doi: 10.1109/IPTA.2016.7821010.
  22. C. Agarwal and A. Sharma, “Image understanding using decision tree based machine learning,” in *Proc. 5th Int. Conf. Inf. Technol. Multimedia (ICIMU)*, 2011, pp. 1–8, doi: 10.1109/ICIMU.2011.6122757.
  23. H. Liu, M. Cocea, and W. Ding, “Decision tree learning based feature evaluation and selection for image classification,” in *Proc. 2017 Int. Conf. Mach. Learn. Cybernet. (ICMLC)*, 2017, vol. 2, pp. 569–574, doi: 10.1109/ICMLC.2017.8108975.