**References**:

1. Zhang, J., Pan, C., Liu, S., Kou, Y., Tang, J., Wang, Y., Yang, N., & Huang, R. (2022). Crop Disease Source Location and Monitoring System Based on Diffractive Light Identification Airborne Spore Sensor Network. IEEE Internet of Things Journal, 9(13), 11030–11042. DOI:10.1109/JIOT.2021.3128253. <https://doi.org/10.1109/JIOT.2021.3128253>.
2. Nyakuri, J. P., Nkundineza, C., Gatera, O., & Nkurikiyeyezu, K. (2024). State-of-the-Art Deep Learning Algorithms for Internet of Things-Based Detection of Crop Pests and Diseases: A Comprehensive Review. *IEEE Access*, 12, 169824-169849. DOI:10.1109/ACCESS.2024.3455244. <https://doi.org/10.1109/ACCESS.2024.3455244>.
3. Kumar, R., Kumar, A., Bhatia, K., Nisar, K. S., Chouhan, S. S., Maratha, P., & Tiwari, A. K. (2024). Hybrid Approach of Cotton Disease Detection for Enhanced Crop Health and Yield. *IEEE Access*, 12, 132495–132507. DOI: 10.1109/ACCESS.2024.3419906. <https://doi.org/10.1109/ACCESS.2024.3419906>.
4. Karthik, R., Ajay, A., Bisht, A. S., Illakiya, T., & Suganthi, K. (2024). A Deep Learning Approach for Crop Disease and Pest Classification Using Swin Transformer and Dual-Attention Multi-Scale Fusion Network. *IEEE Access*, 12, 152639–152655.DOI:10.1109/ACCESS.2024.3481675. <https://doi.org/10.1109/ACCESS.2024.3481675>.

1. Yao, X., Yang, F., & Yao, J. (2024). YOLO-Wheat: A Wheat Disease Detection Algorithm Improved by YOLOv8s. *IEEE Access*, 12, 133877–133888.DOI: 10.1109/ACCESS.2024.3460394. <https://doi.org/10.1109/ACCESS.2024.3460394>.
2. Balafas, V., Karantoumanis, E., Louta, M., & Ploskas, N. (2023). Machine Learning and Deep Learning for Plant Disease Classification and Detection. *IEEE Access*, 11, 114352–114377.DOI: 10.1109/ACCESS.2023.3324722. <https://doi.org/10.1109/ACCESS.2023.3324722>
3. Al-Shahari, E. A., Aldehim, G., Aljebreen, M., Alqurni, J. S., Salama, A. S., & Abdelbagi, S. (2024). Internet of Things Assisted Plant Disease Detection and Crop Management Using Deep Learning for Sustainable Agriculture. *IEEE Access*, 13, 3512–3520.DOI: 10.1109/ACCESS.2024.3397619. <https://doi.org/10.1109/ACCESS.2024.3397619>
4. Lu, D., Xue, Y., Deng, X., Yang, B., Chen, H., & Mo, Z. (2023). Citrus Diseases and Pests Detection Model Based on Self-Attention YOLOv8. *IEEE Access*, 11, 139872–139881.DOI: 10.1109/ACCESS.2023.3340148. <https://doi.org/10.1109/ACCESS.2023.3340148>
5. Moon, G.-Y., & Kim, J.-O. (2024). RoI-Attention Network for Small Disease Segmentation in Crop Images. *IEEE Access*, 12, 63725–63734. DOI: 10.1109/ACCESS.2024.3393301. <https://doi.org/10.1109/ACCESS.2024.3393301>.
6. Moupojou, E., Tagne, A., Retraint, F., Tadonkemwa, A., Wilfried, D., Tapamo, H., & Nkenlifack, M. (2023). FieldPlant: A Dataset of Field Plant Images for Plant Disease Detection and Classification With Deep Learning. *IEEE Access*, 11, 35398–35410. DOI: 10.1109/ACCESS.2023.3263042. <https://doi.org/10.1109/ACCESS.2023.3263042>.
7. Pajany, M., Venkatraman, S., Sakthi, U., Sujatha, M., & Ishak, M. K. (2024). Optimal Fuzzy Deep Neural Networks-Based Plant Disease Detection and Classification on UAV-Based Remote Sensed Data. *IEEE Access*, 12, 162131–162144. DOI: 10.1109/ACCESS.2024.3488751. <https://doi.org/10.1109/ACCESS.2024.3488751>.
8. Iqbal, A. (2025). PlantHealthNet: Transformer-Enhanced Hybrid Models for Disease Diagnosis and Severity Estimation in Agriculture. *IEEE Access*, 13, 101158–101176.

DOI: 10.1109/ACCESS.2025.3576990. <https://doi.org/10.1109/ACCESS.2025.3576990>.

1. Vishnoi, V. K., Kumar, K., Kumar, B., Mohan, S., & Khan, A. A. (2022). Detection of Apple Plant Diseases Using Leaf Images Through Convolutional Neural Network. *IEEE Access*, 11, 6594–6609. DOI: 10.1109/ACCESS.2022.3232917. <https://doi.org/10.1109/ACCESS.2022.3232917>.
2. Shafik, W., Tufail, A., Namoun, A., De Silva, L. C., & Apong, R. A. A. H. M. (2023). A Systematic Literature Review on Plant Disease Detection: Motivations, Classification Techniques, Datasets, Challenges, and Future Trends. *IEEE Access*, 11, 59174–59203.

DOI: 10.1109/ACCESS.2023.3284760. <https://doi.org/10.1109/ACCESS.2023.3284760>.

1. Peyal, H. I., Nahiduzzaman, M., Pramanik, M. A. H., Syfullah, M. K., Shahriar, S. M., Sultana, A., Ahsan, M., Haider, J., Khandakar, A., & Chowdhury, M. E. H. (2023). Plant Disease Classifier: Detection of Dual-Crop Diseases Using Lightweight 2D CNN Architecture. *IEEE Access*, 11, 110627–110643.DOI: 10.1109/ACCESS.2023.3320686. <https://doi.org/10.1109/ACCESS.2023.3320686>.
2. Saleem, M. H., Potgieter, J., & Arif, K. M. (2022). A Performance-Optimized Deep Learning-Based Plant Disease Detection Approach for Horticultural Crops of New Zealand. *IEEE Access*, 10, 89798-89822. DOI: 10.1109/ACCESS.2022.3201106. <https://doi.org/10.1109/ACCESS.2022.3201106>.
3. Patnayakuni, S. P. (2022). Tomato: Different Leaf Disease Detection Using Transfer Learning Based Network. *Journal of Mobile Multimedia*, 18(3), 743–756. DOI: 10.13052/jmm1550-4646.18313. <https://doi.org/10.13052/jmm1550-4646.18313>.
4. Nigar, N., Faisal, H. M., Umer, M., Oki, O., & Lukose, J. M. (2024). Improving Plant Disease Classification With Deep-Learning-Based Prediction Model Using Explainable Artificial Intelligence. *IEEE Access*, 12, Article 3428553. DOI: 10.1109/ACCESS.2024.3428553. <https://doi.org/10.1109/ACCESS.2024.3428553>.
5. Khalid, M., & Talukder, M. A. (2025). A Hybrid Deep Multistacking Integrated Model for Plant Disease Detection. *IEEE Access*, 13, 116037-116053. DOI: 10.1109/ACCESS.2025.3583796. <https://doi.org/10.1109/ACCESS.2025.3583793>
6. Feng, J., Ong, W. E., Teh, W. C., & Zhang, R. (2024). Enhanced Crop Disease Detection With EfficientNet Convolutional Group-Wise Transformer. *IEEE Access*, 12, 44147–44162. DOI: 10.1109/ACCESS.2024.3379303. <https://doi.org/10.1109/ACCESS.2024.3379303>
7. Alarfaj, A. A., Altamimi, A., Aljrees, T., Basheer, S., Umer, M., Samad, M. A., Alsubai, S., & Ashraf, I. (2023). Multi-Step Preprocessing With UNet Segmentation and Transfer Learning Model for Pepper Bell Leaf Disease Detection. *IEEE Access*, 11, 132254–132267. DOI: 10.1109/ACCESS.2023.3334428. <https://doi.org/10.1109/ACCESS.2023.3334428>.
8. Babu, S., Maravarman, M., & Pitchai, R. (2022). Detection of Rice Plant Disease Using Deep Learning Techniques. *Journal of Mobile Multimedia*, 18(3), 757–770. DOI: 10.13052/jmm1550-4646.18314. <https://doi.org/10.13052/jmm1550-4646.18314>.
9. Bijoy, M. H., Hasan, N., Biswas, M., Mazumdar, S., Jimenez, A., Ahmed, F., Rasheduzzaman, M., & Momen, S. (2024). Towards Sustainable Agriculture: A Novel Approach for Rice Leaf Disease Detection Using dCNN and Enhanced Dataset. *IEEE Access*, 12, 34174–34191.

DOI: 10.1109/ACCESS.2024.3371511. <https://doi.org/10.1109/ACCESS.2024.3371511>.

1. Reddy, B. R., Kalnoor, G., Devashish, M., & Reddy, P. S. K. (2025). Deep Learning Based Mobile Application for Automated Plant Disease Detection. *IEEE Access*. Advance online publication. DOI: 10.1109/ACCESS.2025.3581099. <https://doi.org/10.1109/ACCESS.2025.3581099>.
2. Joseph, D. S., Pawar, P. M., & Chakradeo, K. (2024). Real-Time Plant Disease Dataset Development and Detection of Plant Disease Using Deep Learning. *IEEE Access*, 12, 16310–16333. DOI: 10.1109/ACCESS.2024.3358333. <https://doi.org/10.1109/ACCESS.2024.3358333>.
3. Silva, P. E. C. da, & Almeida, J. (2025). An Edge Computing-Based Solution for Real-Time Leaf Disease Classification Using Thermal Imaging. *IEEE Geoscience and Remote Sensing Letters*, 22, Article 7000105. DOI: 10.1109/LGRS.2024.3456633. <https://doi.org/10.1109/LGRS.2024.3456633>.
4. Taji, K., Sohail, A., Shahzad, T., Khan, B. S., Khan, M. A., & Ouahada, K. (2024). An Ensemble Hybrid Framework: A Comparative Analysis of Metaheuristic Algorithms for Ensemble Hybrid CNN Features for Plants Disease Classification. *IEEE Access*, 12, 61886-61906.

DOI: 10.1109/ACCESS.2024.3389648. <https://doi.org/10.1109/ACCESS.2024.3389648>.

1. Richter, D. J., Bappi, M. I., Kolekar, S. S., & Kim, K. (2025). A Systematic Review of the Current State of Transfer Learning Accelerated CNN-Based Plant Leaf Disease Classification. IEEE Access, 13, 116262-116303. DOI: 10.1109/ACCESS.2025.3584404. <https://doi.org/10.1109/ACCESS.2025.3584404>
2. Kaur, A., Randhawa, G. S., Abbas, F., Ali, M., Esau, T. J., Farooque, A. A., & Singh, R. (2024). Artificial Intelligence Driven Smart Farming for Accurate Detection of Potato Diseases: A Systematic Review. IEEE Access, 12, 193902-193922. DOI:10.1109/ACCESS.2024.3510456. <https://doi.org/10.1109/ACCESS.2024.3510456>
3. Qadri, S. A. A., Huang, N.-F., Wani, T. M., & Bhat, S. A. (2025). Advances and Challenges in Computer Vision for Image-Based Plant Disease Detection: A Comprehensive Survey of Machine and Deep Learning Approaches. IEEE Transactions on Automation Science and Engineering, 22, 2639-2665. DOI: 10.1109/TASE.2024.3382731. <https://doi.org/10.1109/TASE.2024.3382731>.
4. Mehdhar S. A. M. Al-Gaashani, Reem Alkanhel, Muthana Ali Salem Ali, Mohammed Saleh Ali Muthanna, Ahmed Aziz, and Ammar Muthanna, "MSCPNet: A Multi-Scale Convolutional Pooling Network for Maize Disease Classification," *IEEE Access*, vol. 13, pp. 11423–11446, 2025. DOI: 10.1109/ACCESS.2024.3524729. <https://doi.org/10.1109/ACCESS.2024.3524729>.
5. Emmanuel Moupojou, Florent Retraint, Hyppolite Tapamo, Marcellin Nkenlifack, Cheikh Kacfah, and Appolinaire Tagne, "Segment Anything Model and Fully Convolutional Data Description for Plant Multi-Disease Detection on Field Images," *IEEE Access*, vol. 12, pp. 102592–102605, 2024. DOI: 10.1109/ACCESS.2024.3433495.

<https://doi.org/10.1109/ACCESS.2024.3433495>.

1. Athira P. Shaji and S. Hemalatha, "SVFRH: A Growth Stage-Based Compartmental Model for Predicting the Disease Incident in Tomato (Solanum lycopersicum)," *IEEE Access*, vol. 13, pp. 23412–23425, 2025. DOI: 10.1109/ACCESS.2025.3537953. <https://doi.org/10.1109/ACCESS.2025.3537953>
2. Nirmala Paramanandham, Shyam Sundhar, and P. Priya, "Enhancing Disease Detection With Weight Initialization and Residual Connections Using LeafNet for Groundnut Leaf Diseases," *IEEE Access*, vol. 12, pp. 91511–91526, 2024. DOI: 10.1109/ACCESS.2024.3422311. <https://doi.org/10.1109/ACCESS.2024.3422311>.
3. Zhiyong Xiao, Yongge Shi, Gailin Zhu, Jianping Xiong, and Jianhua Wu, "Leaf Disease Detection Based on Lightweight Deep Residual Network and Attention Mechanism," *IEEE Access*, vol. 11, pp. 48249–48258, 2023. DOI: 10.1109/ACCESS.2023.3272985. <https://doi.org/10.1109/ACCESS.2023.3272985>.
4. Arun Kumar Sangaiah, Fan-Nong Yu, Yi-Bing Lin, Wan-Chi Shen, and Akashdeep Sharma, "UAV T-YOLO: An Enhanced Tiny Yolo Networks for Rice Leaves Diseases Detection in Paddy Agronomy," *IEEE Transactions on Network Science and Engineering*, vol. 11, no. 6, pp. 5201–5216, Nov./Dec. 2024. DOI: 10.1109/TNSE.2024.3350640. <https://doi.org/10.1109/TNSE.2024.3350640>.
5. Olakunle Elijah, Abiodun Emmanuel Abioye, and Tawanda E. Maguvu, "Pest and Disease Management in Ginger Plants: Artificial Intelligence of Things (AIoT)," *IEEE Transactions on Agrifood*, vol. 3, no. 1, pp. 86–98, March–April 2025. DOI: 10.1109/TAFE.2024.3492323.

<https://doi.org/10.1109/TAFE.2024.3492323>.

1. Ritesh Maurya, Lucky Rajput, and Satyajit Mahapatra, "RAI-Net: Tomato Plant Disease Classification Using Residual-Attention-Inception Network," *IEEE Access*, vol. 13, pp. 64832–64840, 2025. DOI: 10.1109/ACCESS.2025.3559804. <https://doi.org/10.1109/ACCESS.2025.3559804>.
2. Naureen Zainab, Hammad Afzal, Taher Al-Shehari, Muna Al-Razgan, Naima Iltaf, Muhammad Zakria, Muhammad Javed Hyder, and Raheel Nawaz, "Detection and Classification of Temporal Changes for Citrus Canker Growth Rate Using Deep Learning," *IEEE Access*, vol. 11, pp. 127637–127650, 2023. DOI: 10.1109/ACCESS.2023.3331735.

<https://doi.org/10.1109/ACCESS.2023.3331735>.

1. Abdulaziz Alharbi, Muhammad Usman Ghani Khan, and Bushra Tayyaba, "Wheat Disease Classification Using Continual Learning," *IEEE Access*, vol. 11, pp. 90016–90027, 2023.

DOI: 10.1109/ACCESS.2023.3304358. <https://doi.org/10.1109/ACCESS.2023.3304358>.