

## REFERENCES

- [1] Jaiswal, S. P., Bhadoria, V. S., Agrawal, A., & Ahuja, H. (2019). Internet of Things (IoT) for Smart Agriculture and Farming in Developing Nations. *International Journal of Scientific & Technology Research (IJSTR)*, 8(12), 1049–1056.
- [2] Elijah, O., Rahman, T. A., Orikumhi, I., Leow, C. Y., & Hindia, M. N. (2018). An Overview of Internet of Things (IoT) and Data Analytics in Agriculture: Benefits and Challenges. *IEEE Internet of Things Journal*, 5(5), 3758–3775. DOI: 10.1109/JIOT.2018.2844296.
- [3] Lokhande, S. A. (2021). Effective Use of Big Data in Precision Agriculture. *Proc. Int. Conf. Emerg. Smart Comput. Informat. (ESCI)*, 312–316. DOI: 10.1109/ESCI50559.2021.9396813.
- [4] Kounalakis, T., Triantafyllidis, G. A., & Nalpantidis, L. (2019). Deep Learning-Based Visual Recognition of Rumex for Robotic Precision Farming. *Computers and Electronics in Agriculture*, 165, Article 104973. DOI: 10.1016/j.compag.2019.104973.
- [5] Chang, C.-L., & Lin, K.-M. (2018). Smart Agricultural Machine with a Computer Vision-Based Weeding and Variable-Rate Irrigation Scheme. *Robotics*, 7(3), Article 38. DOI: 10.3390/robotics7030038.
- [6] Shamshiri, R. R., Weltzien, C., Hameed, I. A., Yule, I. J., Grift, T. E., Balasundram, S. K., ... Chowdhary, G. (2018). Research and Development in Agricultural Robotics: A Perspective of Digital Farming. *International Journal of Agricultural and Biological Engineering*, 11, 1–14.
- [7] Murugesan, R., Sudarsanam, S. K., Malathi, G., Vijayakumar, V., Neelanarayanan, V., Venugopal, R., ... Saha, S. (2019). Artificial Intelligence and Agriculture 5.0. *International Journal of Recent Technology and Engineering*, 8, 1870–1877.
- [8] Li, S., Yuan, F., Ata-UI-Karim, S. T., Zheng, H., Cheng, T., Liu, X., ... Cao, Q. (2019). Combining Color Indices and Textures of UAV-Based Digital Imagery for Rice LAI Estimation. *Remote Sensing*, 11, Article 1763.
- [9] Li, S., Ding, X., Kuang, Q., Ata-UI-Karim, S. T., Cheng, T., Liu, X., ... Cao, Q. (2018). Potential of UAV-Based Active Sensing for Monitoring Rice Leaf Nitrogen Status. *Frontiers in Plant Science*, 9, 1–14.
- [10] Alonso, R. S., Sittón-Candanedo, I., García, Ó., Prieto, J., & Rodríguez-González, S. (2020). An Intelligent Edge-IoT Platform for Monitoring Livestock and Crops in a Dairy Farming Scenario. *Ad Hoc Networks*, 98, Article 102047.

- [11] Han, L., Yang, G., Yang, H., Xu, B., Li, Z., & Yang, X. (2018). Clustering Field-Based Maize Phenotyping of Plant-Height Growth and Canopy Spectral Dynamics Using a UAV Remote-Sensing Approach. *Frontiers in Plant Science*, 9, 1–18.
- [12] Boonchieng, E., Chieochan, O., & Saokaew, A. (2018). Smart Farm: Applying the Use of NodeMCU, IOT, NETPIE, and LINE API for a Lingzhi Mushroom Farm in Thailand. *IEICE Transactions on Communications*, 101(1), 16–23.
- [13] Cambra, C., Sendra, S., Lloret, J., & Lacuesta, R. (2018). Smart System for Bicarbonate Control in Irrigation for Hydroponic Precision Farming. *Sensors*, 18, Article 1333.
- [14] Azimi Mahmud, M. S., Buyamin, S., Mokji, M. M., & Abidin, M. S. Z. (2018). Internet of Things-Based Smart Environmental Monitoring for Mushroom Cultivation. *Indonesian Journal of Electrical Engineering and Computer Science*, 10(3), 847–852.
- [15] Jawad, H., Nordin, R., Gharghan, S., Jawad, A., Ismail, M., & Abu-AlShaeer, M. (2018). Power Reduction with Sleep/Wake on Redundant Data (SWORD) in a Wireless Sensor Network for Energy-Efficient Precision Agriculture. *Sensors*, 18(10), 3450.
- [16] Jin, X.-B., Yang, N.-X., Wang, X.-Y., Bai, Y.-T., Su, T.-L., & Kong, J.-L. (2020). Hybrid Deep Learning Predictor for Smart Agriculture Sensing Based on Empirical Mode Decomposition and Gated Recurrent Unit Group Model. *Sensors*, 20(5), Article 1334.
- [17] Xue, J., Fan, Y., Su, B., & Fuentes, S. (2019). Assessment of Canopy Vigor Information from Kiwifruit Plants Based on a Digital Surface Model from Unmanned Aerial Vehicle Imagery. *International Journal of Agricultural and Biological Engineering*, 12, 165–171.
- [18] Uddin, M. A., Mansour, A., L. Jeune, M., Ayaz, M., & Aggoune, E.-H. M. (2018). UAV-Assisted Dynamic Clustering of Wireless Sensor Networks for Crop Health Monitoring. *Sensors*, 18, Article 555.
- [19] Sadowski, S., & Spachos, P. (2020). Wireless Technologies for Smart Agricultural Monitoring Using Internet of Things Devices with Energy Harvesting Capabilities. *Computers and Electronics in Agriculture*, 172, Article 105338.
- [20] Sadowski, S., & Spachos, P. (2020). Wireless Technologies for Smart Agricultural Monitoring Using Internet of Things Devices with Energy Harvesting Capabilities. *Computers and Electronics in Agriculture*, 172, Article 105338.

[21] Kumar, P., Kumar, S.V. (2023). Precise and Accurate Farming Framework Utilizing IoT. In: Joshi, A., Mahmud, M., Ragel, R.G. (eds) Information and Communication Technology for Competitive Strategies (ICTCS 2022). ICTCS 2022. Lecture Notes in Networks and Systems, vol 623. pp 293-301, Springer, Singapore

[22] K. P, V. K. S and S. P. S(2024), "CNN and Edge-Based Segmentation for the Identification of Medicinal Plants," 2024 5th International Conference on Intelligent Communication Technologies and Virtual Mobile Networks (ICICV), Tirunelveli, India, 2024, pp. 89-94, doi: 10.1109/ICICV62344.2024.00021.