BIBLIOGRAPHY

[1] Ida, N. (2015). Engineering Electromagnetics. Springer.

[2] Studio, S. (2017). A cheap soil moisture sensor - GardenBot. Gardenbot.org. Retrieved 1 March 2017.

[3] Determination of water absorption and water holding capacities of different soil mixtures with MINIDRAIN system to enhance the plant growth, Sudan Acharya, Madhu ; Rauchecker, Markus ; Wu, Wei, 2014

[4] Soil Mechanics, 2007, Arnold Verruijt

[5] Nagahage, E.A.A. & Nagahage, Isura & Fujino, Takeshi. (2019). Calibration and Validation of a Low-Cost Capacitive Moisture Sensor to Integrate the Automated Soil Moisture Monitoring System. Agriculture. 9. 141. 10.3390/agriculture9070141.

[6] Santos, Clarissa & Rodrigues, Amnon & Canafístula, Francisco & Neto, Odilio & Daher, Sérgio & Teixeira, Adunias. (2022). Performance of the capacitive moisture sensor under different saline conditions. REVISTA CIÊNCIA AGRONÔMICA. 53. 10.5935/1806-6690.20220048.

[7] Yusuf, M & Sahrani, S & Md Saad, Mohamad Hanif & Sarker, Mahidur & Samah, M. (2022). Design and Development of An Internet of Things (IoT) Based Real Time Monitoring and Control System for Smart Indoor Hydroponic Vertical Farming System With ESP32 and Adafruit IO. Journal of Information Systems and Technology Management. 155-163. 10.35631/JISTM.728010.

[8] Jawad, H.M.; Nordin, R.; Gharghan, S.K.; Jawad, A.M.; Ismail, M. Energy-Efficient Wireless Sensor Networks for Precision Agriculture: A Review. Sensors 2017, 17, 1781. https://doi.org/10.3390/s17081781

[9] Nikolidakis, S.A.; Kandris, D.; Vergados, D.D.; Douligeris, C. Energy efficient automated control of irrigation in agriculture by using wireless sensor networks. Comput. Electron. Agric. 2015, 113, 154–163

[10] Müller, G.; Rittenschober, T.; Springer, A. A wireless sensor network using energy harvesting for agricultural machinery. E & I Elektrotech. Informationstech. 2010, 127, 39–46

[11] Kim, Y.-D.; Yang, Y.-M.; Kang, W.-S.; Kim, D.-K. On the design of beacon based wireless sensor network for agricultural emergency monitoring systems. Comput. Stand. Interfaces 2014, 36, 288–299.

[12] Kothawade, Suraj & Shaikh, Furkhan & Raoof, Abdul & Mhaske, Kunjan. (2016). Efficient water management for greenland using soil moisture sensor. 1-4. 10.1109/ICPEICES.2016.7853281.

[13] Jeong, Young & An, Kwang & Lee, Sung & Seo, Dongmahn. (2018). Improved durability of soil humidity sensor for agricultural IoT environments. 1-2. 10.1109/ICCE.2018.8326223.

[14] Shao, Lei & Wang, Zhaoze & Chen, Xiaoqi & Li, Ji & Liu, Hongli. (2018). Estimation and Analysis of Multi-point Soil Moisture Based on Exponential Filtering. 313-317. 10.1109/ICMA.2018.8484660.

[15] Yazong, Zhu & Debao, Dong & Xing, Wang. (2019). Research on Calibration Method of DZN2 Automatic Soil Moisture Meter. 1-3. 10.1109/ICMO49322.2019.9025871.

[16] Abbas, Ahmed & Mohammed, Maya & Mostafa, Gehad & Adel, Eman & Abul Seoud, Rania. (2015). Smart watering system for gardens using wireless sensor networks. ICET 2014 - 2nd International Conference on Engineering and Technology. 10.1109/ICEngTechnol.2014.7016780.

[17] Siregar, Baihaqi, et al. "Soil moisture monitoring system using wireless sensor network." Journal of Physics: Conference Series. Vol. 1028. No. 1. IOP Publishing, 2018.

[18] Deshpande, G., Goswami, M., Kolhe, J., Khandagale, V., Khope, D., Patel, G., Doijad, R., P., R., Mujumdar, M., Singh, B. B., & Ganeshi, N. (2022). IoT-Based Low-Cost Soil Moisture and Soil Temperature Monitoring System. *ArXiv*. /abs/2206.07488

[19] Angelopoulos, Constantinos Marios & Nikoletseas, Sotiris & Theofanopoulos, Georgios. (2011). A smart system for garden watering using wireless sensor networks. 167-170. 10.1145/2069131.2069162.

[20] Waworundeng, Jacquline & Suseno, Novian & Manaha, Roberth. (2019). Automatic Watering System for Plants with IoT Monitoring and Notification. CogITo Smart Journal. 4. 316. 10.31154/cogito.v4i2.138.316-326.

[21] Siddiqi, Sajjad & Al-Mulla, Yaseen. (2022). Wireless Sensor Network System for Precision Irrigation using Soil and Plant Based Near-Real Time Monitoring Sensors. Procedia Computer Science. 203. 407-412. 10.1016/j.procs.2022.07.053.

[22] L. P. Dewi, J. Andjarwirawan and R. P. Wardojo, "Android Application for Monitoring Soil Moisture Using Raspberry Pi," 2017 International Conference on Soft Computing, Intelligent System and Information

Technology (ICSIIT), Denpasar, Indonesia, 2017, pp. 178-184, doi: 10.1109/ICSIIT.2017.63.

[23] Laxmi, V. R., & Saxena, M. (2022, September 30). A Review on Soil Moisture Detection and Plant Watering System in Smart Agriculture. *International Journal for Research in Applied Science and Engineering Technology*, *10*(9), 282–289. https://doi.org/10.22214/ijraset.2022.46606

[24] Kassaye, K. T., Boulange, J., Lam, V. T., Saito, H., & Watanabe, H. (2020). Monitoring soil water content for decision supporting in agricultural water management based on critical threshold values adopted for Andosol in the temperate monsoon climate. *Agricultural Water Management*, *229*, 105930. https://doi.org/10.1016/j.agwat.2019.105930

[25] Shi, W., Zhang, S., Wang, M., & Zheng, W. (2018). Design and performance analysis of soil temperature and humidity sensor. *IFAC-PapersOnLine*, *51*(17), 586-590. https://doi.org/10.1016/j.ifacol.2018.08.134

[26] Yusuf, M. M., Sahrani, S., Md Saad, M. H., Sarker, M., & Abu Samah, M. Z. (2022). Design and Development of An Internet of Things (IoT) Based Real Time Monitoring and Control System for Smart Indoor Hydroponic Vertical Farming System With ESP32 and Adafruit IO. Journal of Information System and Technology Management, 7 (28), 155-163

[27] Chavan, Dr. Shrinivas S. and Dr. Rajendra N. Patil. "An Effective Method for Soil Moisture Sensing using Arduino Uno and Interfacing with GSM Sim 900 Anurag Panigrahy." (2016).

[28] Okasha, A.M.; Ibrahim, H.G.; Elmetwalli, A.H.; Khedher, K.M.; Yaseen, Z.M.; Elsayed, S. Designing Low-Cost Capacitive-Based Soil Moisture Sensor and Smart Monitoring Unit Operated by Solar Cells for Greenhouse Irrigation Management. *Sensors* 2021, *21*, 5387. https://doi.org/10.3390/s21165387

[29] Hirsch, Christian & Bartocci, Ezio & Grosu, Radu. (2019). Capacitive Soil Moisture Sensor Node for IoT in Agriculture and Home. 97-102. 10.1109/ISCE.2019.8901012.

[30] Waber, T., Sax, M., Pahl, W., Stufler, S., Leidl, A., Günther, M., and Feiertag, G.: Fabrication and characterization of a piezoresistive humidity sensor with a stress-free package, J. Sens. Sens. Syst., 3, 167–175, https://doi.org/10.5194/jsss-3-167-2014, 2014.

[31] Subashini, M. & Das, Sreethul & Heble, Soumil & Raj, Unnirishnan & Karthik, Rayudua. (2018). Internet of Things based Wireless Plant Sensor for Smart

Farming. Indonesian Journal of Electrical Engineering and Computer Science. 10. 456-468. 10.11591/ijeecs.v10.i2.pp456-468.