

DAFTAR PUSTAKA

- [1] A. Al-Fuqaha, M. Guizani, M. Mohammadi, M. Aledhari, and M. Ayyash, “Internet of things: A survey on enabling technologies, protocols, and applications,” *IEEE communications surveys & tutorials*, vol. 17, no. 4, pp. 2347–2376, 2015.
- [2] R. S. Sinha, Y. Wei, and S.-H. Hwang, “A survey on lpwa technology: Lora and nb-iot,” *Ict Express*, vol. 3, no. 1, pp. 14–21, 2017.
- [3] P. D. D. ISTIANT, *PERANCANGAN DAN IMPLEMENTASI PERANGKAT PEMANTAUAN AIR SUNGAI CITARUM MENGGUNAKAN TEKNOLOGI AKSES LPWAN LORA*. Telkom University, 2019.
- [4] “Soil fertility npk sensor datasheet,” 2017. [Online]. Available: http://www.lusterleaf.com/img/instruction/1865_instruction.pdf
- [5] F. Muchlisah and S. Hening, *Sayur dan Bumbu Dapur Berhasiat Obat*. Niaga Swadaya, 1997.
- [6] N. Sumarni, R. Rosliani, and A. S. Duriat, “Pengelolaan fisik, kimia, dan biologi tanah untuk meningkatkan kesuburan lahan dan hasil cabai merah,” *Jurnal Hortikultura*, vol. 20, no. 2, 2013.
- [7] M. Ali, “Budidaya tanaman cabai rawit,” 2017.
- [8] D. V. Ramane, S. S. Patil, and A. Shaligram, “Detection of npk nutrients of soil using fiber optic sensor,” in *International Journal of Research in Advent Technology Special Issue National Conference ACGT 2015*, 2015, pp. 13–14.

- [9] N. Gondchawar and R. Kawitkar, "Iot based smart agriculture," *International Journal of advanced research in Computer and Communication Engineering*, vol. 5, no. 6, pp. 838–842, 2016.
- [10] E. Adriantantri and J. Dedy Irawan, "Implementasi iot pada remote monitoring dan controlling green house," *Jurnal Mnemonic*, vol. 1, no. 1, 2018.
- [11] K. S. Budi and Y. Pramudya, "Pengembangan sistem akuisisi data kelembaban dan suhu dengan menggunakan sensor dht11 dan arduino berbasis iot," in *Prosiding Seminar Nasional Fisika (E-Journal)*, vol. 6, 2017, pp. SNF2017–CIP.
- [12] M. G. SV and S. Galande, "Measurement of npk, temperature, moisture, humidity using wsn," 2015.
- [13] I. MUHAMMAD, *RANCANG BANGUN DAN ANALISIS SISTEM PENGUKURAN UNSUR HARA TANAH PADA TANAMAN BAWANG PUTIH BERBASIS INTERNET OF THINGS MENGGUNAKAN METODE TOPOLOGI MESH*. Telkom University, 2019.
- [14] D. Davcev, K. Mitreski, S. Trajkovic, V. Nikolovski, and N. Koteli, "Iot agriculture system based on lorawan," in *2018 14th IEEE International Workshop on Factory Communication Systems (WFCS)*. IEEE, 2018, pp. 1–4.
- [15] M. Elkhodr, S. Shahrestani, and H. Cheung, "The internet of things: Vision challenges," in *IEEE 2013 Tencon - Spring*, April 2013, pp. 218–222.
- [16] J. Gubbi, R. Buyya, S. Marusic, and M. Palaniswami, "Internet of things (iot): A vision, architectural elements, and future directions," *Future Generation Computer Systems*, vol. 29, no. 7, pp. 1645 – 1660, 2013, including Special sections: Cyber-enabled Distributed Computing for Ubiquitous Cloud and Network Services Cloud Computing and Scientific Applications

- Big Data, Scalable Analytics, and Beyond. [Online]. Available: <http://www.sciencedirect.com/science/article/pii/S0167739X13000241>
- [17] D. Miorandi, S. Sicari, F. D. Pellegrini, and I. Chlamtac, “Internet of things: Vision, applications and research challenges,” *Ad Hoc Networks*, vol. 10, no. 7, pp. 1497 – 1516, 2012. [Online]. Available: <http://www.sciencedirect.com/science/article/pii/S1570870512000674>
- [18] L. Atzori, A. Iera, and G. Morabito, “The internet of things: A survey,” *Computer Networks*, vol. 54, no. 15, pp. 2787 – 2805, 2010. [Online]. Available: <http://www.sciencedirect.com/science/article/pii/S1389128610001568>
- [19] A. Zanella, N. Bui, A. Castellani, L. Vangelista, and M. Zorzi, “Internet of things for smart cities,” *IEEE Internet of Things journal*, vol. 1, no. 1, pp. 22–32, 2014.
- [20] L. Alliance, “A technical overview of lora and lorawan,” *White Paper, November*, 2015.
- [21] J. L. Havlin, J. D. Beaton, S. L. Tisdale, and W. Nelson, “Soil fertility and fertilizers: An introduction to nutrient management,” New Jersey: Pearson prentice hall, Tech. Rep., 2005.
- [22] H. Marschner, *Marschner’s mineral nutrition of higher plants*. Academic press, 2011.
- [23] R. Uchida, “Essential nutrients for plant growth: nutrient functions and deficiency symptoms,” *Plant nutrient management in Hawaii’s soils*, pp. 31–55, 2000.
- [24] N. S. Mazloun and O. Edfors, “Performance analysis and energy optimization of wake-up receiver schemes for wireless low-power applications,” *IEEE*

Transactions on Wireless Communications, vol. 13, no. 12, pp. 7050–7061, 2014.

- [25] B. Martinez, M. Monton, I. Vilajosana, and J. D. Prades, “The power of models: Modeling power consumption for iot devices,” *IEEE Sensors Journal*, vol. 15, no. 10, pp. 5777–5789, 2015.
- [26] C. Goursaud and J.-M. Gorce, “Dedicated networks for iot: Phy/mac state of the art and challenges,” 2015.
- [27] R. Wulandari, “Analisis qos (quality of service) pada jaringan internet (studi kasus: Upt loka uji teknik penambangan jampang kulon–lipi),” *Jurnal Teknik Informatika dan Sistem Informasi*, vol. 2, no. 2, 2016.