

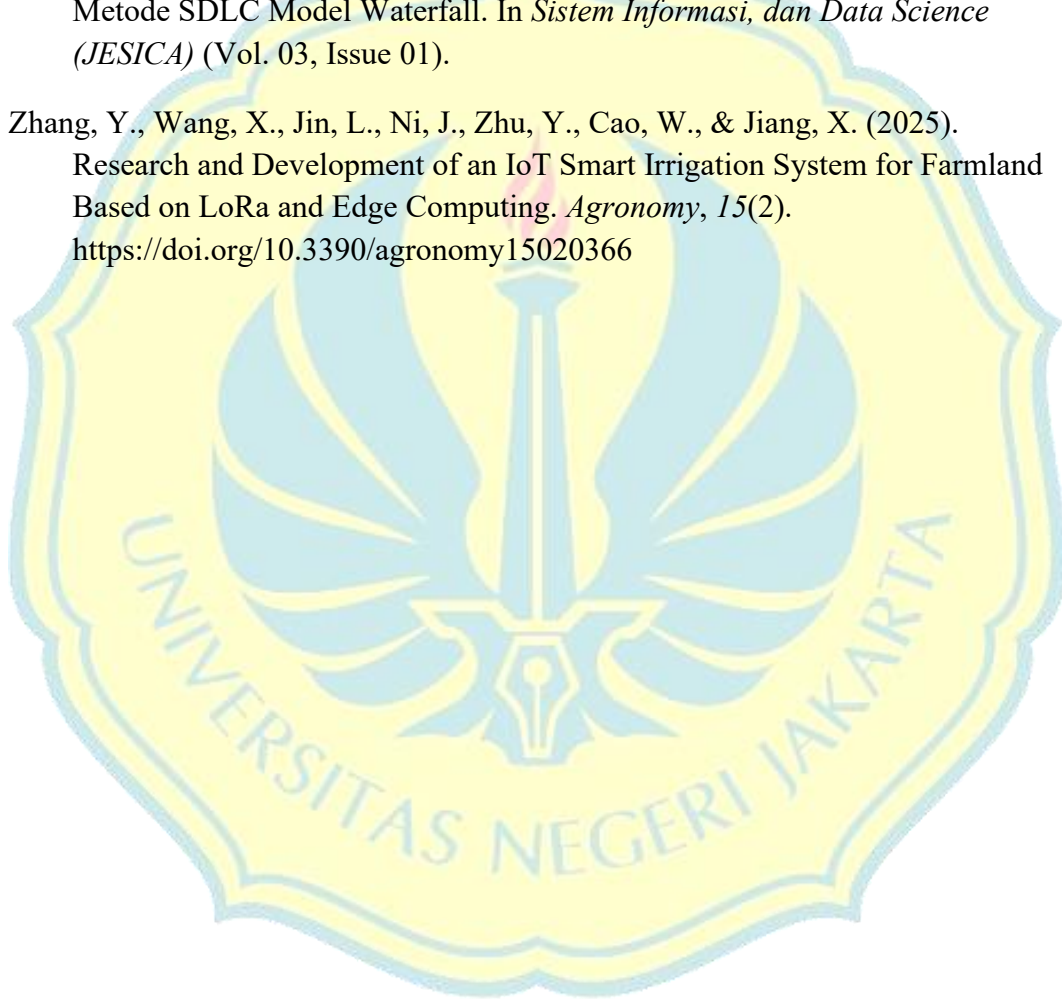
Daftar Pustaka

- Adi, P. D. P., & Siregar, V. M. M. (2021). Soil moisture sensor based on Internet of Things LoRa. *Internet of Things and Artificial Intelligence Journal*, 1(2), 120–132. <https://doi.org/10.31763/iota.v1i2.495>
- Afif, A. N., Noviyanto, F., Sunardi, Akbar, S. A., & Aribowo, E. (2020). Integrated application for automatic schedule-based distribution and monitoring of irrigation by applying the waterfall model process. *Bulletin of Electrical Engineering and Informatics*, 9(1), 420–426. <https://doi.org/10.11591/eei.v9i1.1368>
- Aldaheri, L., Alshehhi, N., Manzil, I. I. J., Khalil, R. A., Javaid, S., Saeed, N., & Alouini, M.-S. (2024). *LoRa Communication for Agriculture 4.0: Opportunities, Challenges, and Future Directions*. <http://arxiv.org/abs/2409.11200>
- Arginanta, D., & Ashari, W. M. (2024). Automatic Vegetable Watering System Using Fuzzy Logic with Integration of Soil Moisture, Rain Sensors, and RTC. In *Journal of Applied Informatics and Computing (JAIC)* (Vol. 8, Issue 2). <http://jurnal.polibatam.ac.id/index.php/JAIC>
- Benzaouia, M., Hajji, B., Mellit, A., & Rabhi, A. (2023). Fuzzy-IoT smart irrigation system for precision scheduling and monitoring. *Computers and Electronics in Agriculture*, 215, 108407. <https://doi.org/10.1016/J.COMPAG.2023.108407>
- David Firman Manggasa, Erna Sri Sugesti, & Ing Paulus Suwanto. (2022). *Figure 1*.
- Derib, D., & Derib, G. D. (2015). Cooperative Automatic Irrigation System using Arduino. *International Journal of Science and Research*, 6, 2319–7064. <https://doi.org/10.21275/ART20171731>
- Faiña, A. (n.d.). *Learning Hands-On Electronics from Home: A Simulator for Fritzing*.
- Galih Salman, A. (2010). *PEMODELAN SISTEM FUZZY DENGAN MENGGUNAKAN MATLAB* (Vol. 1, Issue 2).
- Hoque, J., & Khaliluzzaman, M. (2023). *Fuzzy Logic and IoT-Based Smart Irrigation System* †. 15. <https://doi.org/10.3390/xxxxx>

- Ibrahim, M., & Sugiarto, B. (2023). Rancang Bangun Rumah Pintar (Smart Home) Berbasis Internet Of Things (IoT). *Infotek: Jurnal Informatika Dan Teknologi*, 6(1), 1–10. <https://doi.org/10.29408/jit.v6i1.5365>
- Irianto, K. D. (2022). Performance Evaluation of LoRa in Farm Irrigation System with Internet of Things. *Kinetik: Game Technology, Information System, Computer Network, Computing, Electronics, and Control*. <https://doi.org/10.22219/kinetik.v7i4.1551>
- Jouhari, M., Saeed, N., Alouini, M.-S., & Amhoud, E. M. (2023). *A Survey on Scalable LoRaWAN for Massive IoT: Recent Advances, Potentials, and Challenges*. <https://doi.org/10.1109/COMST.2023.3274934>
- Julianto Pratama, A., & Mandela, R. (2024). Evaluating the Effectiveness of Smart Irrigation Systems in Improving Agricultural Productivity. In *APJ* (Vol. 1, Issue 4). <https://heijournal.id/index.php/apj>
- Karar, M. E., Al-Rasheed, M. F., Al-Rasheed, A. F., & Reyad, O. (2020). Iot and neural network-based water pumping control system for smart irrigation. *Information Sciences Letters*, 9(2), 107–112. <https://doi.org/10.18576/isl/090207>
- Knörig, A., Wettach, R., & Cohen, J. (2009). Fritzing - A tool for advancing electronic prototyping for designers. *Proceedings of the 3rd International Conference on Tangible and Embedded Interaction, TEI'09*, 351–358. <https://doi.org/10.1145/1517664.1517735>
- Kumaran, bala. (2023). *IoT Based Automated Irrigation System for Optimal Water Use in Agriculture*. www.ijnrd.org
- Kurnia, H. (2025). IMPLEMENTASI IOT PADA SISTEM MONITORING SUHU DAN KELEMBABAN MENGGUNAKAN ESP32, FIREBASE DAN KODULAR. In *Jurnal Mahasiswa Teknik Informatika* (Vol. 9, Issue 1).
- Li, W. J., Yen, C., Lin, Y. S., Tung, S. C., & Huang, S. M. (2018). JustIoT Internet of Things based on the Firebase real-time database. *Proceedings - 2018 IEEE International Conference on Smart Manufacturing, Industrial and Logistics Engineering, SMILE 2018, 2018-January*, 43–47. <https://doi.org/10.1109/SMILE.2018.8353979>
- Milala. (2024). *RANCANG BANGUN SISTEM SMART FARMING*.
- Nurhaliza. (2025). *Jurnal Teknik Indonesia*. <https://jti.publicascientificsolution.com/index.php/rp>

- Patel, U., Oza, P. R., Revdiwala, R., Haveliwala, U. M., Agrawal, S., & Kathiria, P. (2022). Fuzzy Logic Inference-Based Automated water Irrigation System. *International Journal of Ambient Computing and Intelligence*, 13(1). <https://doi.org/10.4018/IJACI.304726>
- Patil, S., & Pawar, M. (2022). E-Recruiter Portal. *International Research Journal of Engineering and Technology*. www.irjet.net
- Pereira, G. P., Chaari, M. Z., & Daroge, F. (2023). IoT-Enabled Smart Drip Irrigation System Using ESP32. *Internet of Things*, 4(3), 221–243. <https://doi.org/10.3390/iot4030012>
- Raihan, I., Daud, M., Hasibuan, A., Mardhiah, A., & Kerimzade, G. (2024). Implementation of Fuzzy Logic to Automatic Flower Irrigation Device Using Matlab. *Andalasian International Journal of Applied Science, Engineering and Technology*, 4(2), 137–142. <https://doi.org/10.25077/aijaset.v4i2.117>
- Rashmita, R., Pathare, R., Gupta, V., & Nair, S. (2023). Solar Panel Energy With Smart Irrigation System. *Andalasian International Journal of Applied Science, Engineering and Technology*, 3(01), 44–49. <https://doi.org/10.25077/aijaset.v3i01.71>
- Saragih, K. A., & Kurniawan, R. (2025). Sistem Penyiraman Otomatis Berbasis IoT dengan Logika Fuzzy Sugeno untuk Pengendalian Kelembaban Tanah di Greenhouse. <https://doi.org/10.33364/algorithm/v.23-1.2327>
- Singha, A., Gope, H. L., Islam, A. K. M., Billah, M. M., Hasan, M. M., & Barman, S. (2024). Integrating IoT-Based Smart Irrigation Systems to Optimize Crop Yield and Water Management for Sustainable Agriculture. 123–130. <https://doi.org/10.1145/3723178.3723195>
- Vinasha Aliyaselvam, O., Arith, F., Jia Rong, I., Izuan Zin, S., Ashikin Ali, F., & Nizamuddin Mustafa, A. (2022). Facile Synthesis of Copper Iodide at Low Temperature as Hole Transporting Layer for Perovskite Solar Cell (Vol. 12, Issue 2).
- Warji, W., Suharyatun, S., Tusi, A., & Soma, A. B. (2024). Development of a Prototype Automatic Irrigation System Using Arduino Uno for Enhanced Soil Moisture Management. *International Journal of Design and Nature and Ecodynamics*, 19(5), 1519–1526. <https://doi.org/10.18280/ijdne.190506>
- Yi, L. (2023). Research on the Application of Computer Aided Design Software SU in Landscape Design. In *Highlights in Science, Engineering and Technology ESETEP* (Vol. 2023).

- Yuana, H. (2020). *JIP (Jurnal Informatika Polinema) RANCANG BANGUN SISTEM KENDALI JARAK JAUH LAMPU MENGGUNAKAN THINGSBOARD BERBASIS IOT*.
- Yuana, H., Wulansari, Z., & Chulkamdi, M. T. (n.d.). *Sistem Penyiram Tanaman Otomatis Menggunakan RTC Dan Sensor Hujan*.
- Zaky, M., Nuraji, D., Mu'afi, A., Abie, M., Harianto, S., & Ferdianto, M. R. (n.d.). Rancang Bangun Sistem Irigasi Pertanian Berbasis IoT Menggunakan Metode SDLC Model Waterfall. In *Sistem Informasi, dan Data Science (JESICA)* (Vol. 03, Issue 01).
- Zhang, Y., Wang, X., Jin, L., Ni, J., Zhu, Y., Cao, W., & Jiang, X. (2025). Research and Development of an IoT Smart Irrigation System for Farmland Based on LoRa and Edge Computing. *Agronomy*, 15(2).
<https://doi.org/10.3390/agronomy15020366>



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