

REFERENCES

- [1] A. -E. Marcu, G. Suciu, E. Olteanu, D. Miu, A. Drosu and I. Marcu, "IoT System for Forest Monitoring," 2019 42nd International Conference on Telecommunications and Signal Processing (TSP), Budapest, Hungary, 2019, pp. 629-632, <https://doi.org/10.1109/tsp.2019.8768835>
- [2] Chisika, S. N., & Yeom, C. (2023). Smart urban forest management in East Africa: The case of Nairobi and Kampala cities. SAGE Open, 13(3). <https://doi.org/10.1177/21582440231194137>
- [3] Finecomess, S. A., Gebresenbet, G., & Alwan, H. M. (2024). Utilizing an internet of things (IoT) device, intelligent control design, and simulation for an agricultural system. IoT, 5(1), 58–78. <https://doi.org/10.3390/iot5010004>
- [4] Forest fire (Wildfire). (n.d.). <https://icdo.org/about-icdo/disasters/forest-fire-%28wildfire%29.html>
- [5] Gabrys, J. (2022). Programming nature as infrastructure in the Smart Forest City. Journal of Urban Technology, 29(1), 13–19. <https://doi.org/10.1080/10630732.2021.2004067>
- [6] Hassija, V., Chamola, V., Saxena, V., Jain, D., Goyal, P., & Sikdar, B. (2019). A survey on IoT security: application areas, security threats, and solution

architectures. IEEE Access, 7, 82721–82743.

<https://doi.org/10.1109/access.2019.2924045>

[7] Hitachi, Ltd. (2024, March 13). Saving the woods. Social Innovation.

<https://social-innovation.hitachi/en-in/knowledge-hub/people-planet/saving-woods/>

[8] Irawan, Y., Novrianto, A. W., & Sallam, H. (2021). Cigarette smoke detection and cleaner based on internet of things (IoT) using Arduino microcontroller and MQ-2 sensor. Journal of Applied Engineering and Technological Science, 2(2), 85–93. <https://doi.org/10.37385/jaets.v2i2.218>

[9] Jones, B. (2024, February 21). IoT in Forestry: Pioneering sustainable forest Management. Dryad. <https://www.dryad.net/post/iot-in-forestry>

[10] J. Neto, Hugo E. Hernández-Figueroa. Published in IEEE International Geoscience... (17 July 2022). A Drone-Borne Optical & Radar Sensor for Smart Counties Monitoring. <https://doi.org/10.1109/IGARSS46834.2022.9883865>

[11] Kumar, S., Tiwari, P., & Zymbler, M. (2019). Internet of Things is a revolutionary approach for future technology enhancement: a review. Journal of Big Data, 6(1). <https://doi.org/10.1186/s40537-019-0268-2>

[12] Krishnamoorthy, M., Asif, M. R. A., Kumar, P. P., Nuvvula, R. S. S., Khan, B., & Çolak, İ. (2023). A design and development of the Smart Forest Alert

Monitoring System using IoT. *Journal of Sensors*, 2023, 1–12.

<https://doi.org/10.1155/2023/8063524>

[13] Kane, Jeffrey. "forest fire". *Encyclopedia Britannica*, 1 Mar. 2024,

<https://www.britannica.com/science/forest-fire>

[14] Kaur, P., Kumar, R., & Kumar, M. (2019). A healthcare monitoring system using random forest and internet of things (IoT). *Multimedia Tools and Applications*, 78(14), 19905–19916. <https://doi.org/10.1007/s11042-019-7327-8>

[15] Laghari, A. A., Wu, K., Laghari, R. A., Ali, M., & Khan, A. A. (2021).

RETRACTED ARTICLE: A review and state of art of internet of things (IoT).

Archives of Computational Methods in Engineering, 29(3), 1395–1413.

<https://doi.org/10.1007/s11831-021-09622-6>

[16] Matasov, V., Marchesini, L. B., Yaroslavtsev, A., Sala, G., Fareeva, O. S.,

Seregin, I., Castaldi, S., Vasenev, V., & Valentini, R. (2020). IoT Monitoring of Urban Tree Ecosystem Services: Possibilities and challenges. *Forests*, 11(7), 775.

<https://doi.org/10.3390/f11070775>

[17] Major areas :: Disaster management :: Forest fire. (n.d).

https://agritech.tnau.ac.in/agriculture/agri_majorareas_disastermgt_forestfire.html

[18] Marcu, A., Suci, G., Olteanu, E., Miu, D., Drosu, A., & Marcu, I. (2019).

IoT system for forest monitoring. *IoT System for Forest Monitoring*.

<https://doi.org/10.1109/tsp.2019.8768835>

- [19] Massey, R., Berner, L. T., Foster, A., Goetz, S. J., & Vepakomma, U. (2023). Remote sensing tools for monitoring forests and tracking their dynamics. In *Advances in global change research* (pp. 637–655). https://doi.org/10.1007/978-3-031-15988-6_26
- [20] Nitoslawski, S. A., Galle, N. J., Van Den Bosch, C. K., & Steenberg, J. W. (2019). Smarter ecosystems for smarter cities? A review of trends, technologies, and turning points for smart urban forestry. *Sustainable Cities and Society*, 51, 101770. <https://doi.org/10.1016/j.scs.2019.101770>
- [21] Ouldzira, H., Mouhsen, A., Lagraini, H., Chhiba, M., Tabyaoui, A., & Amrane, S. (2019). Remote monitoring of an object using a wireless sensor network based on NODEMCU ESP8266. *Indonesian Journal of Electrical Engineering and Computer Science*, 16(3), 1154. <https://doi.org/10.11591/ijeecs.v16.i3.pp1154-1162>
- [22] Prebble, S., McLean, J., & Houston, D. (2021). Smart urban forests: An overview of more-than-human and more-than-real urban forest management in Australian cities. *Digital Geography and Society*, 2, 100013. <https://doi.org/10.1016/j.diggeo.2021.100013>
- [23] Prayogo, S. S., Mukhlis, Y., & Yakti, B. K. (2019). The Use and Performance of MQTT and CoAP as Internet of Things Application Protocol

using NodeMCU ESP8266. 2019 Fourth International Conference on Informatics and Computing (ICIC). <https://doi.org/10.1109/icic47613.2019.8985850>

[24] Sukmawati, D. (2023, February 22). Pendeteksi dini kebakaran hutan. Media Indonesia.

<https://mediaindonesia.com/humaniora/461124/pendeteksi-dini-kebakaran-hutan>

[25] Singh, H., Shukla, A., & Kumar, S. (2021). IoT based Forest Fire Detection System in Cloud Paradigm. IOP Conference Series. Materials Science and Engineering, 1022(1), 012068. <https://doi.org/10.1088/1757-899x/1022/1/012068>

[26] Salam, A. (2019). Internet of things for sustainable forestry. In the Internet of Things (pp. 147–181). https://doi.org/10.1007/978-3-030-35291-2_5

[27] Thalluri, L. N., Venkat, S. N., Prasad, C. V. V. D., Kumar, D. V., Kumar, K. P., Sarma, A. V. S. Y. N., & Adapa, S. D. (2021). Artificial Intelligence Enabled Smart City IoT System using Edge Computing. 2021 2nd International Conference on Smart Electronics and Communication (ICOSEC).

<https://doi.org/10.1109/icosec51865.2021.9591732>

[28] Venanzi, R., Latterini, F., Civitarese, V., & Picchio, R. (2023). Recent applications of smart technologies for monitoring the sustainability of forest operations. *Forests*, 14(7), 1503. <https://doi.org/10.3390/f14071503>

[29] Y. Deshpande, K. Savla, C. Lobo, S. Bhattacharjee and J. Patel, "Forest Monitoring System Using Sensors, Wireless Communication and Image Processing," 2018 Fourth International Conference on Computing Communication Control and Automation (ICCUBEA), Pune, India, 2018, pp. 1-6, <https://doi.org/10.1109/iccubea.2018.8697708>

[30] Zhao, M., Ye, R., Hsu, C., Chen, Y., & Chen, Z. (2023). Realization of forest internet of things using wireless network communication technology of Low-Power Wide-Area Network. *Sensors*, 23(10), 4809. <https://doi.org/10.3390/s23104809>