

DAFTAR PUSTAKA

- Ayub, A., Abidin, Z. Z., Alhammadi, A., Soliman, N. F., Khan, M. A., & Algarni, A. D. (2025). Comparative study of indoor positioning datasets focusing on localization accuracy success rate and floor classification. *Scientific Reports*, *15*(1). <https://doi.org/10.1038/s41598-025-17692-w>
- Chan, P. Y., Chao, J. C., & Wu, R. B. (2023). A Wi-Fi-Based Passive Indoor Positioning System via Entropy-Enhanced Deployment of Wi-Fi Sniffers. *Sensors*, *23*(3). <https://doi.org/10.3390/s23031376>
- Eridani, D., Rochim, A. F., & Cesara, F. N. (2021a). Comparative Performance Study of ESP-NOW, Wi-Fi, Bluetooth Protocols based on Range, Transmission Speed, Latency, Energy Usage and Barrier Resistance. *Proceedings - 2021 International Seminar on Application for Technology of Information and Communication: IT Opportunities and Creativities for Digital Innovation and Communication within Global Pandemic, ISemantic 2021*, 322–328. <https://doi.org/10.1109/iSemantic52711.2021.9573246>
- Eridani, D., Rochim, A. F., & Cesara, F. N. (2021b). Comparative Performance Study of ESP-NOW, Wi-Fi, Bluetooth Protocols based on Range, Transmission Speed, Latency, Energy Usage and Barrier Resistance. *Proceedings - 2021 International Seminar on Application for Technology of Information and Communication: IT Opportunities and Creativities for Digital Innovation and Communication within Global Pandemic, ISemantic 2021*, 322–328. <https://doi.org/10.1109/iSemantic52711.2021.9573246>
- Gaona Juárez, R., García-Barrientos, A., Acosta-Elias, J., Stevens-Navarro, E., Galván, C. G., Palavicini, A., & Monroy Cruz, E. (2025). Design and Implementation of an Indoor Localization System Based on RSSI in IEEE 802.11ax. *Applied Sciences (Switzerland)*, *15*(5). <https://doi.org/10.3390/app15052620>
- Hailu, T. G., Guo, X., & Si, H. (2025). Indoor Positioning Systems as Critical Infrastructure: An Assessment for Enhanced Location-Based Services. In *Sensors* (Vol. 25, Issue 16). Multidisciplinary Digital Publishing Institute (MDPI). <https://doi.org/10.3390/s25164914>
- Jocknoi, L., & Kucharoen, P. (2024). ESP32Exten: Designing and Developing an ESP32 Microcontroller Expansion for IoT Applications with Motor Propulsion and AI Image Processing. *8th International Conference on Information Technology 2024, InCIT 2024*, 278–283. <https://doi.org/10.1109/InCIT63192.2024.10810578>
- M Adiyatma, F. Y., Eko Kurniawan, A., Joko Suroso, D., & Cherntanomwong, P. (2021). Performance Comparison of Several Range-based Techniques for

- Indoor Localization Based on Received Signal Strength Indicator. *Intl. Journal on ICT*, 7(1), 40–53. <https://doi.org/10.34818/ijoiict.v7i1.550>
- Maduranga, M. W. P., Tilwari, V., & Abeyssekera, R. (2024). Improved-RSSI-based indoor localization by using pseudo-linear solution with machine learning algorithms. *Journal of Electrical Systems and Information Technology*, 11(1). <https://doi.org/10.1186/s43067-024-00138-0>
- Mittal, A., Mirchandani, N., Michetti, G., Colombo, L., Haque, T., Rinaldi, M., & Shrivastava, A. (2022). A ± 0.5 dB, 6 nW RSSI Circuit With RF Power-to-Digital Conversion Technique for Ultra-Low Power IoT Radio Applications. *IEEE Transactions on Circuits and Systems I: Regular Papers*, 69(9), 3526–3539. <https://doi.org/10.1109/TCSI.2022.3181543>
- Rathnayake, R. M. M. R., Maduranga, M. W. P., Tilwari, V., & Dissanayake, M. B. (2023). RSSI and Machine Learning-Based Indoor Localization Systems for Smart Cities. In *Eng* (Vol. 4, Issue 2, pp. 1468–1494). Multidisciplinary Digital Publishing Institute (MDPI). <https://doi.org/10.3390/eng4020085>
- Rusli, M. E., Ali, M., Jamil, N., & Din, M. M. (2016). An Improved Indoor Positioning Algorithm Based on RSSI-Trilateration Technique for Internet of Things (IOT). *Proceedings - 6th International Conference on Computer and Communication Engineering: Innovative Technologies to Serve Humanity, ICCCE 2016*, 12–77. <https://doi.org/10.1109/ICCCE.2016.28>
- Sadowski, S., & Spachos, P. (2018). RSSI-Based Indoor Localization with the Internet of Things. *IEEE Access*, 6, 30149–30161. <https://doi.org/10.1109/ACCESS.2018.2843325>
- Şeker, Ö., Akdoğan, T., Şahin, B., & Dalkılıç, G. (n.d.). *Journal of Millimeterwave Communication, Optimization and Modelling v* (Vol. 4, Issue 1).
- Suroso, D. J., Arifin, M., & Cherntanomwong, P. (2020). Distance-based indoor localization system utilizing general path loss model and RSSI. *Journal of Robotics and Control (JRC)*, 1(6), 199–207. <https://doi.org/10.18196/jrc.1638>
- Waddar, R., Patil, A. A., Korimath, G., Kalyani, R., Shirol, S., & Iyer, N. C. (2025). ESP32-Driven Real-Time Indoor Localization Using Wi-Fi RSSI and a Simple Path Loss Model. *Proceedings of 2025 International Conference on Emerging Technologies in Computing and Communication, ETCC 2025*. <https://doi.org/10.1109/ETCC65847.2025.11108539>
- Wattananavin, T., Sengchuai, K., Jindapetch, N., & Booranawong, A. (2020). A Comparative Study of RSSI-Based Localization Methods: RSSI Variation



Caused by Human Presence and Movement. *Sensing and Imaging*, 21(1).
<https://doi.org/10.1007/s11220-020-00296-1>

Zafari, F., Gkelias, A., & Leung, K. K. (2019). A Survey of Indoor Localization Systems and Technologies. *IEEE Communications Surveys and Tutorials*, 21(3), 2568–2599. <https://doi.org/10.1109/COMST.2019.2911558>

Liouane, H., Messous, S., Cheikhrouhou, O., Koubaa., Hamdi, M. (2022). *Mobile Anchor and Kalman Filter Boosted Bounding Box for Localization in Wireless Sensor Networks*. *Electronics*, 11(20), 3296.
<https://doi.org/10.3390/electronics11203296>

Gast, M. (2002). 802. *11 wireless networks: The definitive guide*. O'Reilly Media.

Goldoni, E., Savioli, A., Risi, M., & Gamba, P. (2010). *Experimental analysis of RSSI-based Indoor localization with IEEE 802.15.4*. In *Proceedings of the 2010 European Wireless Conference* (pp. 71-77). IEEE

Ainul, R. D. (2022). An enhanced trilateration algorithm for indoor RSSI based positioning system using zigbee protocol. *JURNAL INFOTEL*, 14(4), 301–306. <https://doi.org/10.20895/infotel.v14i4.822>

Nicholaus, M. R., Nfuka, E. N., & Aliila Greyson, K. (2019). Properties of WLAN Indoor Fingerprinting Received Signal Strength for Localization. *International Journal of Computer Trends and Technology*, 67.
<http://www.ijctjournal.org>

Suroso, D. J., Krisnawan, A. B., Rupaksi, R., & Hawibowo, S. (2022). IMPLEMENTATION OF RANGE-BASED AND RANGE-FREE 3D INDOOR LOCALIZATION IN MULTI-STORY BUILDING BASED ON RSSI. *ASEAN Engineering Journal*, 12(1), 93–103.
<https://doi.org/10.11113/AEJ.V12.16801>