

DAFTAR PUSTAKA

- [1] A. A. Ghafar, M. Kassim, N. Ya'acob, R. Mohamad, dan R. A. Rahman, "QoS of Wi-Fi Performance Based on Signal Strength and Channel for Indoor Campus Network," *Bulletin of Electrical Engineering and Informatics*, vol. 9, no. 5, hlm. 2097–2108, 2020, doi: 10.11591/eei.v9i5.2251.
- [2] E. A. Z. Hamidi, N. Ismail, dan R. Syahyadin, "Pengukuran Coverage Outdoor Wireless LAN dengan Metode Visualisasi di Universitas Islam Negeri Sunan Gunung Djati Bandung," *TELKA*, vol. 2, no. 2, hlm. 82–93, 2016.
- [3] S. Nuratch, "Design and Implementation of Real-time Embedded Data Acquisition and Classification with Web-based Configuration and Visualization," dalam *2018 International Conference on Embedded Systems and Intelligent Technology and International Conference on Information and Communication Technology for Embedded Systems (ICESIT-ICICTES 2018)*, 2018. doi: 10.1109/ICESIT-ICICTES.2018.8442071.
- [4] P. Sethi dan S. R. Sarangi, "Internet of Things: Architectures, Protocols, and Applications," *Journal of Electrical and Computer Engineering*, vol. 2017, 2017. doi: 10.1155/2017/9324035.
- [5] S. N. Swamy dan S. R. Kota, "An Empirical Study on System Level Aspects of Internet of Things (IoT)," *IEEE Access*, vol. 8, hlm. 188082–188134, 2020. doi: 10.1109/ACCESS.2020.3029847.
- [6] F. Subhan, S. Ahmed, K. Ashraf, dan M. Imran, "Extended Gradient RSSI Predictor and Filter for Signal Prediction and Filtering in Communication Holes," *Wireless Personal Communications*, vol. 83, no. 1, hlm. 297–314, 2015. doi: 10.1007/s11277-015-2394-2.
- [7] S. K. Das dan C. Ramesh, "Modulation and Transmitted Data Sequence Independent Carrier RSSI Estimation," dalam *Proceedings of the 2014 20th Annual International Conference on Advanced Computing and Communications (ADCOM 2014)*, hlm. 16–21, 2014. doi: 10.1109/ADCOM.2014.7103242.
- [8] D. Vally dan V. Bhardwaj, "An Effective Path Planning Optimization in Cellular Networking Based on Key Performance Indicator: A Review," dalam

- Proceedings of the 2024 15th International Conference on Computing Communication and Networking Technologies (ICCCNT 2024)*, 2024. doi: 10.1109/ICCCNT61001.2024.10725247.
- [9] Y. Lei, Y. Zhang, dan Y. Zhao, “The Research of Coverage Problems in Wireless Sensor Network,” dalam *Proceedings of the International Conference on Wireless Networks and Information Systems (WNIS 2009)*, hlm. 31–34, 2009. doi: 10.1109/WNIS.2009.38.
- [10] ESP32.net, “ESP32,” [Daring]. Tersedia: <http://esp32.net/>. [Diakses: 6 Februari 2025].
- [11] Upesy, "ESP32 Pinout Reference: Which GPIO Pins Should You Use?" *Upesy*, 2023. [Daring]. Tersedia: <https://www.upesy.com/blogs/tutorials/esp32-pinout-reference-gpio-pins-ultimate-guide#>. [Diakses: 6 Februari 2025].
- [12] Espressif Systems, "ESP32 Series Datasheet," *Espressif Systems*, 2019. [Daring]. Tersedia: https://www.espressif.com/sites/default/files/documentation/esp32_datasheet_en.pdf. [Diakses: 6 Februari 2025].
- [13] V. Dharmadhikari, N. Pusalkar, dan P. Ghare, “Path Loss Exponent Estimation for Wireless Sensor Node Positioning: Practical Approach,” dalam *Proceedings of the International Symposium on Advanced Networks and Telecommunication Systems (ANTS)*, 2018. doi: 10.1109/ANTS.2018.8710123.
- [14] P. S. Saputra, P. A. Pratama, dan L. P. A. S. Tjahyanti, “Perancangan dan Komparasi Web Server Nginx dengan Web Server Apache serta Pemanfaatan Reverse Proxy Server pada Nginx,” *Jurnal Komputer dan Teknologi Sains (KOMTEKS)*, vol. 2, no. 1, hlm. 16–21, Okt. 2023.
- [15] N. Gunantara, P. K. Sudiarta, A. A. N. A. I. Prasetya, A. Dharma, dan I. N. Gde Antara, “Measurements of the Received Signal Level and Service Coverage Area at the IEEE 802.11 Access Point in the Building,” *Journal of Physics: Conference Series*, vol. 989, no. 1, 2018. doi: 10.1088/1742-6596/989/1/012014. [1]

- [16] T. S. Rappaport, *Wireless Communications: Principles and Practice* (2nd Edition), Subsequent. Prentice Hall, 2002.
- [17] Oracle, "What is MySQL?," Oracle, [Daring]. Tersedia: <https://www.oracle.com/id/mysql/what-is-mysql/>. [Diakses: 16 Mei 2025].
- [18] D. Lord, X. Qin, and S. R. Geedipally, "Exploratory Analyses of Safety Data," *Highway Safety Analytics and Modeling*, hlm. 135–177, Jan. 2021, doi: 10.1016/B978-0-12-816818-9.00015-9.
- [19] R. S. Kaffa, Z. S. L. Purnomo, R. F. Akbar, U. K. Usman, dan S. P. Wisetyo, "Network Signal Coverage Expansion Planning WLAN Outdoor with 4-C Scenario Approach at Telkom University," *[CEPAT] Journal of Computer Engineering: Progress, Application and Technology*, vol. 3, no. 02, Jan. 2025, doi: 10.25124/cepat.v3i02.8790.
- [20] R. Soni, "Nginx: From Beginner to Pro". Apress Media LLC, 2016. doi: 10.1007/978-1-4842-1656-9.
- [21] K. S. Radhakrishna, Y. S. Lee, K. Y. You, K. M. Thiruvarasu, and S. T. Ng, "Study of Obstacles Effect on Mobile Network and WLAN Signal Strength," *International Journal of Electronics and Telecommunications*, vol. 69, no. 1, hlm. 155–161, 2023, doi: 10.24425/ijet.2023.144345.
- [22] Cisco Systems, "Wireless RF Reference Guide," *Technical Reference for Catalyst 9800 Series Wireless Controllers*, 18 April 2024. [Daring]. Tersedia: <https://www.cisco.com/c/en/us/td/docs/wireless/controller/9800/technical-reference/wireless-rf-reference-guide.html>.
- [23] PHP Group, "Introduction," PHP Manual, 2024. [Daring]. Tersedia: <https://www.php.net/manual/en/introduction.php>.
- [24] G. Morra, "Visualisasi," dalam *Pythonic Geodynamics: Implementations for Fast Computing*, disunting oleh G. Morra, Cham: Springer International Publishing, 2018, hlm. 15–33. doi: 10.1007/978-3-319-55682-6_2.
- [25] G. van Rossum, "Comparing Python to Other Languages". [Daring]. Tersedia: <https://www.python.org/doc/essays/comparisons/>. [Diakses: 07-Jul-2025].

- [26] B. Chesneau, “Gunicorn: 'Green Unicorn' is a WSGI HTTP Server for UNIX”, *GitHub Repository*. [Daring]. Tersedia: <https://github.com/benoitc/gunicorn>. [Diakses: 07-Jul-2025].
- [27] R. Poenaru, “Web Application for Monitoring Large-scale Virtualized Computing Resources,” *2022 21st RoEduNet Conference: Networking in Education and Research (RoEduNet)*, Sovata, Romania, 2022, hlm. 1-5, doi: 10.1109/RoEduNet57163.2022.9921106.
- [28] W3Schools, “HTML Tutorial”. [Daring]. Tersedia: <https://www.w3schools.com/html/>. [Diakses: 07-Jul-2025]
- [29] Venn Telecom, “How to Interpret RSSI Parameters in 2G, 3G and LTE Routers,” *Venn Telecom Help Center*, [Daring]. Tersedia: <https://help.venntelecom.com/support/solutions/articles/44001930999-how-to-interpret-rssi-parameters-in-2g-3g-and-lte-routers>. [Diakses: 08-Jul-2025].
- [30] A. S. Azini, M. R. Kamarudin, dan M. Jusoh, “Transparent Antenna for Wi-Fi Application: RSSI and Throughput Performances at ISM 2.4 GHz,” *Telecommunication Systems*, vol. 61, no. 3, hlm. 569–577, Mar. 2016, doi: 10.1007/s11235-015-0013-x.
- [31] P. A. Frangoudis, D. I. Zografos, dan G. C. Polyzos, “Secure Interference Reporting for Dense Wi-Fi Deployments,” *Proc. 5th Int. Student Workshop on Emerging Networking Experiments and Technologies (Co-Next Student Workshop)*, New York, Amerika Serikat, 2009, hlm. 37–38, doi: 10.1145/1658997.1659018.
- [32] R. Hamin dan R. Albar, “Analisis Interferensi Co-Channel pada Kinerja Sinyal yang Dipancarkan *Access Point Wireless Fidelity* (Wi-Fi) Menggunakan Metode QoS,” *Journal of Informatics and Computer Science*, vol. 10, no. 1, 2024.
- [33] M. Karaca dan B. Landfeldt, “Load-aware Channel Selection for 802.11 WLANs with Limited Measurement,” Apr. 2016, [Daring]. Tersedia: <http://arxiv.org/abs/1301.2750>.

- [34] T. Adame, M. Carrascosa, B. Bellalta, I. Pretel, dan I. Etxebarria, “Channel Load Aware AP / Extender Selection in Home WiFi Networks Using IEEE 802.11k/v,” *IEEE Access*, vol. 9, hlm. 30095–30112, 2021, doi: 10.1109/ACCESS.2021.3059473.
- [35] S. Kamdee dan A. Apavatjirut, “On Optimizing WiFi RSSI and Channel Assignment using Genetic Algorithm for WiFi Tuning,” *ECTI Transactions on Electrical Engineering, Electronics, and Communications*, vol. 19, no. 3, hlm. 322–330, Okt. 2021, doi: 10.37936/ECTI-EEC.2021193.244941.
- [36] M. Mujahidin dan P. Putra, “Wireless Network Channel Interference for Mobile Communication: a Systematic Literature Review,” *Journal of Applied Information and Communication Technologies*, vol. 8, no. 2, 2023. Tersedia: <https://jurnal.polines.ac.id/index.php/jaict/article/view/4671>.
- [37] L. Samal dan P. Bute, “Wireless Network for Industrial Application using ESP32 as Gateway,” pada *2023 14th International Conference on Computing Communication and Networking Technologies, ICCCNT 2023*, Institute of Electrical and Electronics Engineers Inc., 2023. doi: 10.1109/ICCCNT56998.2023.10306864.
- [38] D. B. Hertanto, R. Asnawi, F. Surwi, and N. Setiawan, “Prototype Development of Distance Detection System Based on the Internet of Things Using ESP 8266 WiFi Nodemcu Module,” in *Journal of Physics: Conference Series*, IOP Publishing Ltd, Dec. 2021. doi: 10.1088/1742-6596/2111/1/012049.