

## DAFTAR PUSTAKA

- Abbas, H.A. *et al.* (2021) “Wi-Fi Based Accurate Indoor Localization System using SVM and LSTM Algorithms,” in *Proceedings - 2021 IEEE 22nd International Conference on Information Reuse and Integration for Data Science, IRI 2021*. Institute of Electrical and Electronics Engineers Inc., pp. 416–422. doi:10.1109/IRI51335.2021.00065.
- Al-Jamimi, H.A. and Al-Roubaiey, A. (2019) “Hybrid Modelling Based on SVM and GA for Intelligent Wi-Fi-based Indoor Localization System,” in *2019 11th International Conference on Electronics, Computers and Artificial Intelligence (ECAI)*, pp. 1–6. doi:10.1109/ECAI46879.2019.9042102.
- Al-Sarawi, S. *et al.* (2020) “Internet of Things Market Analysis Forecasts, 2020–2030,” *Proceedings of the World Conference on Smart Trends in Systems, Security and Sustainability, WS4 2020*, pp. 449–453. doi:10.1109/WORLDS450073.2020.9210375.
- Aye, N., Maung, M. and Zaw, W. (2020) “Comparative Study of RSS-based Indoor Positioning Techniques on Two Different Wi-Fi Frequency Bands,” in *2020 17th International Conference on Electrical Engineering/Electronics, Computer, Telecommunications and Information Technology (ECTI-CON)*, pp. 185–188.
- Barybin, O., Zaitseva, E. and Brazhnyi, V. (2019) “Testing the Security ESP32 Internet of Things Devices,” *2019 IEEE International Scientific-Practical Conference: Problems of Infocommunications Science and Technology, PIC S and T 2019 - Proceedings*, pp. 143–146. doi:10.1109/PICST47496.2019.9061269.
- Eridani, D. and Widiyanto, E.D. (2018) “Performance of Sensors Monitoring System using Raspberry Pi through MQTT Protocol,” in *2018 International Seminar on Research of Information Technology and Intelligent Systems (ISRITI)*, pp. 587–590. doi:10.1109/ISRITI.2018.8864473.
- Essa, E., Abdullah, B.A. and Wahba, A. (2019) “Improve performance of indoor positioning system using BLE,” *2019 14th International Conference on Computer Engineering and Systems (ICCES)*, pp. 234–238. doi:10.1109/ICCES48960.2019.9068142.
- Gentner, C. *et al.* (2020) “WiFi-RTT Indoor Positioning,” in *2020 IEEE/ION Position, Location and Navigation Symposium, PLANS 2020*. Institute of Electrical and Electronics Engineers Inc., pp. 1029–1035. doi:10.1109/PLANS46316.2020.9110232.

- Jamaluddin, J., Nugroho, A.T. and Maulina, W. (2019) "Rancang Bangun Indoor Positioning System berbasis Wireless Smartphone menggunakan Teknik Global Positioning System dengan Metode Absolut," *BERKALA SAINSTEK*, 7(1), pp. 13–18. doi:10.19184/BST.V7I1.9914.
- Kowalczyk, A. (2017) *Support Vector Machines Succinctly*. Morrisville, North Carolina: Syncfusion. Available at: <https://www.syncfusion.com/succinctly-free-ebooks/support-vector-machines-succinctly> (Accessed: April 13, 2022).
- Kristensen, J.B. *et al.* (2019) "Non-Line-of-Sight Identification for UWB Indoor Positioning Systems using Support Vector Machines," in *2019 IEEE MTT-S International Wireless Symposium (IWS)*, pp. 1–3. doi:10.1109/IEEE-IWS.2019.8804072.
- Lee, S. *et al.* (2017) "Construction of an indoor positioning system for home IoT applications," in *2017 IEEE International Conference on Communications (ICC)*. Institute of Electrical and Electronics Engineers Inc., pp. 1–7. doi:10.1109/ICC.2017.7997159.
- Mekki, K., Bajic, E. and Meyer Fernand (2019) "Indoor Positioning System for IoT Device based on BLE Technology and MQTT Protocol," in *2019 IEEE 5th World Forum on Internet of Things (WF-IoT)*. IEEE, pp. 787–792. doi:10.1109/WF-IoT.2019.8767287.
- Misal, S.R. *et al.* (2020) "Indoor Positioning System (IPS) Using ESP32, MQTT and Bluetooth," in *2020 Fourth International Conference on Computing Methodologies and Communication (ICCMC)*, pp. 79–82. doi:10.1109/ICCMC48092.2020.ICCMC-00015.
- Mutoh, N. and Shibata, T. (2019) "An Indoor Positioning System using a Wearable Wireless Sensor and the Support Vector Machine," *Asia-Pacific Microwave Conference Proceedings, APMC*, 2019-December, pp. 616–618. doi:10.1109/APMC46564.2019.9038391.
- Oliveira, G.M.B. *et al.* (2018) "Comparison between MQTT and WebSocket Protocols for IoT Applications Using ESP8266," in *2018 Workshop on Metrology for Industry 4.0 and IoT, MetroInd 4.0 and IoT 2018 - Proceedings*. Institute of Electrical and Electronics Engineers Inc., pp. 236–241. doi:10.1109/METROI4.2018.8428348.
- Priantama, R. (2015) "EFEKTIVITAS WIFI DALAM MENUNJANG PROSES PENDIDIKAN BAGI LEMBAGA PERGURUAN TINGGI (Studi Kasus Terhadap Mahasiswa Pengguna Di Lingkungan Universitas Kuningan)," *Jurnal Cloud Information*, 1(1), pp. 22–28.
- Sashida, A. *et al.* (2019) "A Machine Learning Approach to Indoor Positioning for Mobile Targets using BLE Signals," *34th International Technical Conference on Circuits/Systems, Computers and Communications, ITC-CSCC 2019* [Preprint]. doi:10.1109/ITC-CSCC.2019.8793423.

- Sharon, D., Sapri and Supardi, R. (2014) “MEMBANGUN JARINGAN WIRELESS LOCAL AREA NETWORK (WLAN) PADA CV.BIQ BENGKULU,” *Jurnal Media Infotama*, 10(1), pp. 35–41.
- Shuai Zhang *et al.* (2018) “Indoor 2.5D Positioning of WiFi Based on SVM,” in *2018 Ubiquitous Positioning, Indoor Navigation and Location-Based Services (UPINLBS)*, pp. 1–7. doi:10.1109/UPINLBS.2018.8559903.
- Sthapit, P., Gang, H.-S. and Pyun, J.-Y. (2018) “Bluetooth Based Indoor Positioning Using Machine Learning Algorithms,” in *2018 IEEE International Conference on Consumer Electronics - Asia (ICCE-Asia)*, pp. 206–212. doi:10.1109/ICCE-ASIA.2018.8552138.
- Uy, N.Q. and Nam, V.H. (2019) “A comparison of AMQP and MQTT protocols for Internet of Things,” in *Proceedings - 2019 6th NAFOSTED Conference on Information and Computer Science, NICS 2019*. Institute of Electrical and Electronics Engineers Inc., pp. 292–297. doi:10.1109/NICS48868.2019.9023812.
- Visa, S. *et al.* (2011) “Confusion Matrix-based Feature Selection,” in *Proceedings of The 22nd Midwest Artificial Intelligence and Cognitive Science Conference 2011*, pp. 120–127.
- W Boers, E.J. *et al.* (2009) *Artificial Intelligence: Definition, Trends, Techniques and Cases*.
- de Wynckel, M. van and Signer, B. (2022) “Indoor Positioning Using the OpenHPS Framework,” in *2021 International Conference on Indoor Positioning and Indoor Navigation (IPIN)*. Institute of Electrical and Electronics Engineers (IEEE), pp. 1–8. doi:10.1109/ipin51156.2021.9662569.