

DAFTAR PUSTAKA

- [1] K. Goldberg, “What Is Automation?,” *IEEE Trans. Automat. Sci. Eng.*, vol. 9, no. 1, pp. 1–2, Jan. 2012, doi: 10.1109/TASE.2011.2178910.
- [2] Fidelis C. Obodoeze, “The Roles of Sensors in Industrial Automation,” 2011, doi: 10.13140/RG.2.2.30608.56323.
- [3] H. Haryanto and S. Hidayat, “Perancangan HMI (Human Machine Interface) Untuk Pengendalian Kecepatan Motor DC,” *JIS*, vol. 1, no. 2, p. 58, Mar. 2016, doi: 10.36055/setrum.v1i2.476.
- [4] P. Papcun, E. Kajati, and J. Koziorek, “Human Machine Interface in Concept of Industry 4.0,” in *2018 World Symposium on Digital Intelligence for Systems and Machines (DISA)*, Kosice, Aug. 2018, pp. 289–296. doi: 10.1109/DISA.2018.8490603.
- [5] F. Manuri and A. Sanna, “A Survey on Applications of Augmented Reality,” vol. 5, no. 1, p. 10, 2016.
- [6] B. T. Gorbala and M. Hariadi, “Aplikasi Augmented Reality untuk Katalog Penjualan Rumah,” p. 7.
- [7] A. Rizzardi, S. Sicari, D. Miorandi, and A. Coen-Porisini, “AUPS: An Open Source AUthenticated Publish/Subscribe system for the Internet of Things,” *Information Systems*, vol. 62, pp. 29–41, Dec. 2016, doi: 10.1016/j.is.2016.05.004.
- [8] R. A. Light, “Mosquitto: server and client implementation of the MQTT protocol,” *JOSS*, vol. 2, no. 13, p. 265, May 2017, doi: 10.21105/joss.00265.
- [9] E. Stark, E. Kučera, O. Haffner, P. Drahoš, and R. Leskovský, “Using Augmented Reality and Internet of Things for Control and Monitoring of Mechatronic Devices,” *Electronics*, vol. 9, no. 8, p. 1272, Aug. 2020, doi: 10.3390/electronics9081272.
- [10] Ó. Blanco-Novoa, P. Fraga-Lamas, M. Vilar-Montesinos, and T. Fernández-Caramés, “Towards the Internet of Augmented Things: An Open-source Framework to Interconnect IoT Devices and Augmented Reality Systems,” *Proceedings*, vol. 42, no. 1, p. 50, Nov. 2019, doi: 10.3390/ecsa-6-06563.
- [11] R. C. J. Wydmann and R. Mukhaiyar, “Augmented Reality dalam Penggunaan Alat Rumah Tangga Berbasis Internet Of Things,” *JTEIN*, vol. 1, no. 2, pp. 84–91, Oct. 2020, doi: 10.24036/jtein.v1i2.48.
- [12] J. Braam, “Production Line Operation assisted by Industrial AR,” p. 30.



- [13] A. Rifa'i, "SISTEM PEMANTAUAN DAN KONTROL OTOMATIS KUALITAS AIR BERBASIS IOT MENGGUNAKAN PLATFORM NODE-RED UNTUK BUDIDAYA UDANG," vol. 7, p. 8, 2021.
- [14] A. N. I. Wardana, Y. Bachtiar, M. B. Andriansyah, and R. Salma, "Implementasi Realitas Berimbu pada Antarmuka Manusia-Mesin di Industri Proses," *Jurnal Teknik Elektro*, vol. 13, no. 2, pp. 71–78, Dec. 2021, doi: 10.15294/jte.v13i2.32191.
- [15] N. De Caro, W. Colitti, K. Steenhaut, G. Mangino, and G. Reali, "Comparison of two lightweight protocols for smartphone-based sensing," in *2013 IEEE 20th Symposium on Communications and Vehicular Technology in the Benelux (SCVT)*, Namur, Belgium, Nov. 2013, pp. 1–6. doi: 10.1109/SCVT.2013.6735994.
- [16] J. E. Luzuriaga, M. Perez, P. Boronat, J. C. Cano, C. Calafate, and P. Manzoni, "A comparative evaluation of AMQP and MQTT protocols over unstable and mobile networks," in *2015 12th Annual IEEE Consumer Communications and Networking Conference (CCNC)*, Las Vegas, NV, USA, Jan. 2015, pp. 931–936. doi: 10.1109/CCNC.2015.7158101.
- [17] M. Samaha and N. S. Hawi, "Relationships among smartphone addiction, stress, academic performance, and satisfaction with life," *Computers in Human Behavior*, vol. 57, pp. 321–325, Apr. 2016, doi: 10.1016/j.chb.2015.12.045.
- [18] M. Ito, *HMI Requirements Creation, as the Collaboration Work of Human and Machine in the Safety-Critical System*. 2017, p. 71. doi: 10.1007/978-3-319-64218-5_5.
- [19] A. Ardanza, A. Moreno, Á. Segura, M. de la Cruz, and D. Aguinaga, "Sustainable and flexible industrial human machine interfaces to support adaptable applications in the Industry 4.0 paradigm," *null*, vol. 57, no. 12, pp. 4045–4059, Jun. 2019, doi: 10.1080/00207543.2019.1572932.
- [20] H. Rahadian and M. A. Heryanto, "Pengembangan Human Machine Interface (HMI) pada Simulator Sortir Bola sebagai Media Pembelajaran Otomasi Industri," *JNTE*, vol. 9, no. 2, p. 84, Jul. 2020, doi: 10.25077/jnte.v9n2.766.2020.
- [21] B. Hollifield, E. Habibi, I. Nimmo, and D. Oliver, "The High Performance HMI Handbook: A Comprehensive Guide to Designing, Implementing and Maintaining Effective HMIs for Industrial Plant Operations," 2008.
- [22] F. Ferri, P. Grifoni, M. C. Caschera, A. D'Andrea, A. D'Ulizia, and T. Guzzo, "The HMI Digital Ecosystem: Challenges and Possible Solutions," in *Proceedings of the 10th International Conference on Management of Digital EcoSystems*, New York, NY, USA, 2018, pp. 157–164. doi: 10.1145/3281375.3281397.



- [23] S. Bhosale, R. Patil, and M. Karjulkar, “Augmented Reality,” Apr. 2021.
- [24] G. Valarmathie, “The study of augmented reality technique in science learning motivation (eSTAR).”
- [25] M. Mekni and A. Lemieux, “Augmented Reality : Applications , Challenges and Future Trends,” 2014.
- [26] C. Pribeanu, A. Balog, and D. D. Iordache, “Measuring the perceived quality of an AR-based learning application: a multidimensional model,” *null*, vol. 25, no. 4, pp. 482–495, May 2017, doi: 10.1080/10494820.2016.1143375.
- [27] E. Solak and R. Cakir, “Exploring the effect of materials designed with augmented reality on language learners’ vocabulary learning,” *JEO*, vol. 12, no. 2, Jul. 2015, doi: 10.9743/JEO.2015.2.5.
- [28] K. Lee, “Augmented Reality in Education and Training,” *TECHTRENDS TECH TRENDS*, vol. 56, no. 2, pp. 13–21, Mar. 2012, doi: 10.1007/s11528-012-0559-3.
- [29] R. T. Azuma, “A Survey of Augmented Reality,” *Presence: Teleoperators and Virtual Environments*, vol. 6, no. 4, pp. 355–385, Aug. 1997, doi: 10.1162/pres.1997.6.4.355.
- [30] I. M. Andhika, “DIKTAT MATA KULIAH KOMUNIKASI DATA,” *Universitas Komputer Indonesia*.
- [31] D. Pradana and B. A. Ardi Sumbodo, “Rancang Bangun M2M (Machine-to-Machine) Communication Berbasis 6LoWPAN,” *IJEIS*, vol. 7, no. 1, p. 93, Apr. 2017, doi: 10.22146/ijeis.18087.
- [32] S.-J. Jung, “Personal machine-to-machine (M2M) healthcare system with mobile device in global networks,” p. 74.
- [33] S. Shea, “machine-to-machine (M2M),” *TechTarget IoT Agenda*. <https://internetofthingsagenda.techtarget.com/definition/machine-to-machine-M2M>
- [34] M. Suznjevic and J. Saldana, “Delay Limits for Real-Time Services,” *IETF draft*, Jun. 2016.
- [35] D. Eridani and E. D. Widiyanto, “Performance of Sensors Monitoring System using Raspberry Pi through MQTT Protocol,” in *2018 International Seminar on Research of Information Technology and Intelligent Systems (ISRITI)*, Yogyakarta, Indonesia, Nov. 2018, pp. 587–590. doi: 10.1109/ISRITI.2018.8864473.
- [36] D. J. Vyas and N. N. Rudani, “MQTT & IOT Based Control and Monitoring of Smart Green House,” vol. 6, no. 1, p. 6, 2018.



- [37] G. C. Hillar, “MQTT essentials : a lightweight IoT protocol : the preferred IoT publish-subscribe lightweight messaging protocol,” 2017.
- [38] D. Thangavel, X. Ma, A. C. Valera, H.-X. Tan, and C. K.-Y. Tan, “Performance evaluation of MQTT and CoAP via a common middleware,” *2014 IEEE Ninth International Conference on Intelligent Sensors, Sensor Networks and Information Processing (ISSNIP)*, pp. 1–6, 2014.
- [39] G. Y. Saputra, A. D. Afrizal, F. K. R. Mahfud, F. A. Pribadi, and F. J. Pamungkas, “PENERAPAN PROTOKOL MQTT PADA TEKNOLOGI WAN (STUDI KASUS SISTEM PARKIR UNIVERISTAS BRAWIJAYA),” p. 7.
- [40] V. Lampkin, W. T. Leong, L. Olivera, S. Rawat, N. Subrahmanyam, and R. Xiang, “Building Smarter Planet Solutions with MQTT and IBM WebSphere MQ Telemetry,” p. 268.
- [41] takanorig, *MQTT-Bench : MQTT Benchmark Tool*. GitHub. [Online]. Available: <https://github.com/takanorig/mqtt-bench>
- [42] B. Mishra, “Performance Evaluation of MQTT Broker Servers,” in *Computational Science and Its Applications – ICCSA 2018*, vol. 10963, O. Gervasi, B. Murgante, S. Misra, E. Stankova, C. M. Torre, A. M. A. C. Rocha, D. Taniar, B. O. Apduhan, E. Tarantino, and Y. Ryu, Eds. Cham: Springer International Publishing, 2018, pp. 599–609. doi: 10.1007/978-3-319-95171-3_47.
- [43] P. Jamborsalamati, M. Moghimi, J. Hossain, and J. Lu, “Design and Implementation of a Hierarchical Hybrid Communication Platform for Multi-Microgrid Applications,” in *Sustainability in Energy and Buildings 2018*, Cham, 2019, pp. 199–208.
- [44] The HiveMQ Team, “MQTT over WebSockets - MQTT Essentials Special,” *HiveMQ*, 2015. <https://www.hivemq.com/blog/mqtt-essentials-special-mqtt-over-websockets>
- [45] M. C. Calzarossa and E. Gelenbe, Eds., *Performance tools and applications to networked systems: revised tutorial lectures*. Berlin ; New York: Springer, 2004.
- [46] H. Fahmi, “ANALISIS QOS (QUALITY OF SERVICE) PENGUKURAN DELAY, JITTER, PACKET LOST DAN THROUGHPUT UNTUK MENDAPATKAN KUALITAS KERJA RADIO STREAMING YANG BAIK,” vol. 7, p. 8, 2018.
- [47] D. Novaliendry and R. Darni, *Interaksi Manusia & Komputer*, 1st ed. Padang: UNP Press, 2019.
- [48] D. I. Harinaldi and M. Eng, “Prinsip-prinsip statistik untuk teknik dan sains,” *Jakarta: Erlangga*, 2005.



- [49] “EMERSON,” *EMERSON*. <https://www.emerson.com/en-id>
- [50] S. ISA--The Instrumentation and and Automation Society, *Instrumentation symbols and identification*. Research Triangle Park, NC: ISA, 1992.

