

DAFTAR PUSTAKA

- [1] P. M. Udiyani, S. Kuntjoro, and J. S. Pane, “AKTIVITAS DAN KONSEKUENSI DISPERSI RADIOAKTIF UNTUK DAERAH KOTA DAN PEDESAAN,” *Jurnal Pengembangan Energi Nuklir*, vol. 17, no. 2, p. 79, Dec. 2015, doi: 10.17146/jpen.2015.17.2.2603.
- [2] J. M. Colston *et al.*, “Evaluating meteorological data from weather stations, and from satellites and global models for a multi-site epidemiological study,” *Environ Res*, vol. 165, pp. 91–109, Aug. 2018, doi: 10.1016/J.ENVRES.2018.02.027.
- [3] T. H. Seto, A. E. Sakya, M. B. R. Prayoga, and F. Sunarto, “Role of Weather Modification Technology in climate change adaptation: Indonesian case,” *Regional Problems*, vol. 21, no. 3 (1), pp. 54–57, 2018, doi: 10.31433/1605-220x-2018-21-3(1)-54-57.
- [4] Y. El-Ouartassy, I. Korsakissok, M. Plu, O. Connan, L. Descamps, and L. Raynaud, “Combining short-range dispersion simulations with fine-scale meteorological ensembles: probabilistic indicators and evaluation during a ⁸⁵Kr field campaign,” *Atmos Chem Phys*, vol. 22, no. 24, pp. 15793–15816, 2022, doi: 10.5194/acp-22-15793-2022.
- [5] C. Bonadonna *et al.*, “Assessing the effectiveness and the economic impact of evacuation: the case of the island of Vulcano, Italy,” *Natural Hazards and Earth System Sciences*, vol. 22, no. 3, pp. 1083–1108, 2022, doi: 10.5194/nhess-22-1083-2022.
- [6] M. Oura, R. Ohba, A. Robins, and S. Kato, “Validation study for an atmospheric dispersion model, using effective source heights determined from wind tunnel experiments in nuclear safety analysis,” *Atmosphere (Basel)*, vol. 9, no. 3, Mar. 2018, doi: 10.3390/atmos9030111.
- [7] K. Chandra, R. Proshad, H. C. Dey, and A. M. Idris, “A review on radionuclide pollution in global soils with environmental and health hazards evaluation,” Dec. 01, 2023, *Springer*. doi: 10.1007/s10653-023-01725-2.
- [8] S. J. Leadbetter *et al.*, “Ranking uncertainties in atmospheric dispersion modelling following the accidental release of radioactive material,” *Radioprotection*, vol. 55, pp. S51–S55, May 2020, doi: 10.1051/radiopro/2020012.

- [9] “Case Study on Assessment of Radiological Environmental Impact from Potential Exposure.” [Online]. Available: <http://www-ns.iaea.org/standards/>
- [10] A. Dahia, D. Merrouche, and T. Rezoug, “Radioactive Contamination Control by Atmospheric Dispersion Assessment of Airborne Indicator Contaminants: Numerical Model Validation,” *Environmental Modeling and Assessment*, vol. 23, no. 4, pp. 401–414, Aug. 2018, doi: 10.1007/s10666-018-9598-2.
- [11] H. Snoun, M. Krichen, and H. Chérif, “A comprehensive review of Gaussian atmospheric dispersion models: current usage and future perspectives,” *EuroMediterr J Environ Integr*, vol. 8, no. 1, pp. 219–242, 2023, doi: 10.1007/s41207-023-00354-6.
- [12] F. A. Almazrouei, Y. Addad, and P. Rodgers, “Towards CFD Predictions of Radioactive Pollutants Dispersion Under Arabian Peninsula Environmental Conditions,” in *Challenges and Recent Advancements in Nuclear Energy Systems*, A. Shams, K. Al-Athel, I. Tiselj, A. Pautz, and T. Kwiatkowski, Eds., Cham: Springer Nature Switzerland, 2024, pp. 701–720.
- [13] J. . Crawford, *RadCon : a radiological consequences model : technical guide, Version 2.0*. ANSTO, 2000.
- [14] “ANVS Guide on Level 3 PSA ANVS Guide on Level 3 PSA |,” 2020.
- [15] “An International Peer Review of the Programme for Evaluating Sites for Near Surface Disposal of Radioactive Waste in Lithuania Report of the IAEA International Review Team International Peer Review of the Environmental Impact Assessment Performed for the Licence Application of the Baltic-1 Nuclear Power Plant, Kaliningrad, Russian Federation Final Report of the IAEA International Review Team,” 2015.
- [16] H. Zhang, Y. Liu, C. Zhang, and N. Li, “Machine Learning Methods for Weather Forecasting: A Survey,” Jan. 01, 2025, *Multidisciplinary Digital Publishing Institute (MDPI)*. doi: 10.3390/atmos16010082.
- [17] H. Muhammad, W. Xuan, M. Wang, and G. Su, “Review of spatial scale dispersion models (ATDMs) to simulate environmental dispersion and deposition of radionuclides and the overview of GIS coupling with dispersion models,” Dec. 01, 2024, *KeAi Communications Co*. doi: 10.1016/j.jandt.2025.03.004.
- [18] N. Fairusiyyah, B. Widjasena, E. Bagian Keselamatan dan Kesehatan Kerja, and F. Kesehatan Masyarakat, “ANALISIS IMPLEMENTASI MANAJEMEN

- KESELAMATAN RADIASI SINAR-X DI UNIT KERJA RADIOLOGI RUMAH SAKIT NASIONAL DIPONEGORO SEMARANG TAHUN 2016,” 2016. [Online]. Available: <http://ejournal-s1.undip.ac.id/index.php/jkm>
- [19] L. Jurnal *et al.*, “Jurnal Pengembangan Energi Nuklir Komparasi Data Pemantauan Cuaca antara Stasiun Meteorologi Di Tapak RDNK dan KNS untuk Proses Perizinan,” 2019.
- [20] “IAEA Safety Standards for protecting people and the environment.” [Online]. Available: <http://www-ns.iaea.org/standards/>
- [21] Y. Ren, G. Zhang, J. Zheng, and H. Miao, “An Integrated Solution for Nuclear Power Plant On-Site Optimal Evacuation Path Planning Based on Atmospheric Dispersion and Dose Model,” *Sustainability (Switzerland)*, vol. 16, no. 6, Mar. 2024, doi: 10.3390/su16062458.
- [22] J. A. Jones, “Nuclear Society of Slovenia SI0000004 3 rd Regional Meeting: Nuclear Energy in Central Europe COSYMA, a mainframe and PC program package for assessing the consequences of hypothetical accidents,” 1996.
- [23] Torben. Mikkelsen, *Coordination of atmospheric dispersion activities for the real-time decision support system RODOS*. Riso National Laboratory, 1997.
- [24] P. Susmitha and G. Sowmyabala, “Design and Implementation of Weather Monitoring and Controlling System,” 2014.
- [25] S. T. Shah *et al.*, “Coded environments: data-driven indoor localisation with reconfigurable intelligent surfaces,” *Communications Engineering*, vol. 3, no. 1, Dec. 2024, doi: 10.1038/s44172-024-00209-0.
- [26] K. Sathupadi, S. Achar, S. V. Bhaskaran, N. Faruqui, M. Abdullah-Al-Wadud, and J. Uddin, “Edge-Cloud Synergy for AI-Enhanced Sensor Network Data: A Real-Time Predictive Maintenance Framework,” *Sensors*, vol. 24, no. 24, Dec. 2024, doi: 10.3390/s24247918.
- [27] K. Sattar, M. Arslan, S. Majeed, and S. Iqbal, “Wireless sensor networks data synchronization using node MCU memory for precision agriculture applications,” Feb. 2025, [Online]. Available: <http://arxiv.org/abs/2502.18671>
- [28] S. Pakzad, G. Fenves, S. Kim, and D. Culler, “Design and Implementation of Scalable Wireless Sensor Network for Structural Monitoring,” *Journal of Infrastructure Systems*

- *J INFRASTRUCT SYST*, vol. 14, Mar. 2008, doi: 10.1061/(ASCE)1076-0342(2008)14:1(89).
- [29] E. J, “Optimizing Data Transfer Speed and the Performance Evaluation of MQTT in IoT: A Study on MQTT for Atmospheric Condition Monitoring,” *Journal of Information Systems Engineering and Management*, vol. 10, pp. 231–244, Apr. 2025, doi: 10.52783/jisem.v10i39s.7144.
- [30] D. Thangavel, X. Ma, H.-X. Tan, and C. Tan, *Performance evaluation of MQTT and CoAP via a common middleware*. 2014. doi: 10.1109/ISSNIP.2014.6827678.
- [31] J. Dizdarevic, F. Carpio, A. Jukan, and X. Masip-Bruin, “Survey of Communication Protocols for Internet-of-Things and Related Challenges of Fog and Cloud Computing Integration,” Feb. 2019, doi: 10.1145/3292674.
- [32] H. J. Kim, U. Lee, M. Kim, and S. Lee, “Time-synchronization method for can–ethernet networks with gateways,” *Applied Sciences (Switzerland)*, vol. 10, no. 24, pp. 1–11, Dec. 2020, doi: 10.3390/app10248873.
- [33] M. Spohn, “On MQTT Scalability in the Internet of Things: Issues, Solutions, and Future Directions,” *Journal of Electronics and Electrical Engineering*, p. 4, Oct. 2022, doi: 10.37256/jeee.1120221687.
- [34] F. Yıldırım, Y. Yalman, K. Ç. Bayındır, and E. Terciyanlı, “Comprehensive Review of Edge Computing for Power Systems: State of the Art, Architecture, and Applications,” Apr. 01, 2025, *Multidisciplinary Digital Publishing Institute (MDPI)*. doi: 10.3390/app15084592.
- [35] S. Nayak, R. Patgiri, L. Waikhom, and A. Ahmed, “A review on edge analytics: Issues, challenges, opportunities, promises, future directions, and applications,” *Digital Communications and Networks*, vol. 10, no. 3, pp. 783–804, Jun. 2024, doi: 10.1016/J.DCAN.2022.10.016.
- [36] H. Kim, “Open-source Software for Developing Appropriate Smart Manufacturing Technology for Small and Medium-sized Enterprises (SMEs),” *Academic Society for Appropriate Technology*, vol. 8, no. 3, pp. 109–116, Dec. 2022, doi: 10.37675/jat.2022.00206.

- [37] T. Anees, Q. Habib, A. S. Al-Shamayleh, W. Khalil, M. A. Obaidat, and A. Akhunzada, "The Integration of WoT and Edge Computing: Issues and Challenges," *Sustainability (Switzerland)*, vol. 15, no. 7, Apr. 2023, doi: 10.3390/su15075983.
- [38] A. Karami and M. Karami, "Edge computing in big data: challenges and benefits," *Int J Data Sci Anal*, pp. 1–44, Jul. 2025, doi: 10.1007/s41060-025-00855-3.
- [39] A. Dutta, K. Das, F. De Rango, T. Le Feudo, and C. R. Calidonna, "A Comparative Study on Statistical and AI-Based Short-Term Wind Speed Forecasting," in *2025 15th International Renewable Energy Congress, IREC 2025*, Institute of Electrical and Electronics Engineers Inc., 2025. doi: 10.1109/IREC64614.2025.10926819.
- [40] M. Yu, F. Xu, W. Hu, J. Sun, and G. Cervone, "Using Long Short-Term Memory (LSTM) and Internet of Things (IoT) for Localized Surface Temperature Forecasting in an Urban Environment," *IEEE Access*, vol. PP, p. 1, Jul. 2021, doi: 10.1109/ACCESS.2021.3116809.
- [41] A. Casolaro, V. Capone, G. Iannuzzo, and F. Camastra, "Deep Learning for Time Series Forecasting: Advances and Open Problems," Nov. 01, 2023, *Multidisciplinary Digital Publishing Institute (MDPI)*. doi: 10.3390/info14110598.
- [42] L. Piccioni Costa *et al.*, "Multilayer Perceptron," 2023, p. 105.
- [43] B. Ma and A. Entezari, "An Interactive Framework for Visualization of Weather Forecast Ensembles," *IEEE Trans Vis Comput Graph*, vol. 25, no. 1, pp. 1091–1101, 2019, doi: 10.1109/TVCG.2018.2864815.
- [44] Z. Li and X. Liu, "Multidimensional Display System of ATC radar data based on GIS," in *2008 2nd International Symposium on Systems and Control in Aerospace and Astronautics*, 2008, pp. 1–5. doi: 10.1109/ISSCAA.2008.4776391.
- [45] A. Munandar, H. Fakhurroja, M. I. Rizqyawan, R. P. Pratama, J. W. Wibowo, and I. A. F. Anto, "Design of real-time weather monitoring system based on mobile application using automatic weather station," in *2017 2nd International Conference on Automation, Cognitive Science, Optics, Micro Electro-Mechanical System, and Information Technology (ICACOMIT)*, 2017, pp. 44–47. doi: 10.1109/ICACOMIT.2017.8253384.
- [46] W. Sulistya *et al.*, "Development of Automated Weather Observing System Based on Realtime Web Display," in *2019 International Electronics Symposium (IES)*, 2019, pp. 577–581. doi: 10.1109/ELECSYM.2019.8901542.

- [47] W. Xuehua, L. Chang, L. Jiaqi, Q. Xuezhi, W. Ning, and Z. Wenjun, "A cellular automata model for forest fire spreading simulation," in *2016 IEEE Symposium Series on Computational Intelligence (SSCI)*, 2016, pp. 1–6. doi: 10.1109/SSCI.2016.7849971.
- [48] A. D. Gupta, D. Katoch, S. Sharma, S. R. Kumar, and A. Rana, "Weather Forecasting using Machine Learning," in *2023 10th IEEE Uttar Pradesh Section International Conference on Electrical, Electronics and Computer Engineering (UPCON)*, 2023, pp. 226–230. doi: 10.1109/UPCON59197.2023.10434670.
- [49] S. Banara, T. Singh, and A. Chauhan, "IoT Based Weather Monitoring System for Smart Cities: A Comprehensive Review," in *2022 International Conference for Advancement in Technology (ICONAT)*, 2022, pp. 1–6. doi: 10.1109/ICONAT53423.2022.9726106.
- [50] F. Sharon, A. V. P. Y, and G. S, "IoT Framework for Real Time Weather Monitoring using Machine Learning Techniques," in *2023 Second International Conference on Electrical, Electronics, Information and Communication Technologies (ICEEICT)*, 2023, pp. 1–7. doi: 10.1109/ICEEICT56924.2023.10156901.
- [51] G. Verma, P. Mittal, and S. Farheen, "Real Time Weather Prediction System Using IOT and Machine Learning," in *2020 6th International Conference on Signal Processing and Communication (ICSC)*, 2020, pp. 322–324. doi: 10.1109/ICSC48311.2020.9182766.
- [52] H. Taherdoost and M. Madanchian, "Multi-Criteria Decision Making (MCDM) Methods and Concepts," *Encyclopedia*, vol. 3, no. 1, pp. 77–87, Jan. 2023, doi: 10.3390/encyclopedia3010006.
- [53] K. Moran, C. Bernal-Cárdenas, M. Curcio, R. Bonett, and D. Poshyvanyk, "Machine Learning-Based Prototyping of Graphical User Interfaces for Mobile Apps," Jun. 2018, [Online]. Available: <http://arxiv.org/abs/1802.02312>
- [54] Z. Dou *et al.*, "Atmospheric dispersion prediction of accidental release: A review," 2022, *Maximum Academic Press*. doi: 10.48130/EMST-2022-0009.
- [55] Z. Q. Huang, Y. C. Chen, and C. Y. Wen, "Real-time weather monitoring and prediction using city buses and machine learning," *Sensors (Switzerland)*, vol. 20, no. 18, pp. 1–21, 2020, doi: 10.3390/s20185173.
- [56] J. M. Stockie, "The Mathematics of Atmospheric Dispersion Modeling," *SIAM Review*, vol. 53, no. 2, pp. 349–372, 2011, doi: 10.1137/10080991X.