

DAFTAR PUSTAKA

- Aguilar-Rangel, E. J., Paredes-Cárcamo, F., Andrade, M. D., Contreras-Sánchez, D., Rain-Medina, V., Campanini-Salinas, J., & Medina, D. A. (2025). Hospital Wastewater as a Reservoir of Contaminants of Emerging Concern: A Study Report from South America, Chile. *Antibiotics*, 14(11). <https://doi.org/10.3390/antibiotics14111111>.
- Arifin, A., Harbi, H., Indriani, A. S., Laila, I., Abdullah, B., Alridho, Idris, I., & Prakosa, J. A. (2025). Real-Time Physiological Activity and Sleep State Monitoring System Using TS2Vec Embeddings and DBSCAN Clustering for Heart Rate and Motor Response Analysis in IoMT. *Signals*, 6(4), 67. <https://doi.org/10.3390/signals6040067>.
- Babuji, P., Thirumalaisamy, S., Duraisamy, K., & Periyasamy, G. (2023). Human Health Risks due to Exposure to Water Pollution: A Review. Dalam *Water (Switzerland)* (Vol. 15, Nomor 14). Multidisciplinary Digital Publishing Institute (MDPI). <https://doi.org/10.3390/w15142532>.
- Barroso, A., Valente, T., Marinho Reis, A. P., & Antunes, I. M. H. R. (2023). A New Acidity-Based Approach for Estimating Total Dissolved Solids in Acidic Mining Influenced Water. *Water (Switzerland)*, 15(16). <https://doi.org/10.3390/w15162995>.
- Bhandari, G., Chaudhary, P., Gangola, S., Gupta, S., Gupta, A., Rafatullah, M., & Chen, S. (2023). A review on hospital wastewater treatment technologies: Current management practices and future prospects. Dalam *Journal of Water Process Engineering* (Vol. 56). Elsevier Ltd. <https://doi.org/10.1016/j.jwpe.2023.104516>.
- Chavhan, N., Bhattad, R., Khot, S., Patil, S., Pawar, A., Pawar, T., & Gawli, P. (2025). APAH: An autonomous IoT driven real-time monitoring system for Industrial wastewater. *Digital Chemical Engineering*, 14. <https://doi.org/10.1016/j.dche.2025.100217>.
- Chen, Y., Yu, P., Zheng, Z., Shen, J., & Guo, M. (2022). Modeling feature interactions for context-aware QoS prediction of IoT services. Dalam *Future Generation Computer Systems* (Vol. 137, hlm. 173–185). Elsevier B.V. <https://doi.org/10.1016/j.future.2022.07.017>.
- Chentoufi, O., Choukhairi, M., & Chougali, K. (2025). An Enhanced Machine Learning Framework for Network Anomaly Detection. *AI (Switzerland)*, 6(11). <https://doi.org/10.3390/ai6110299>.
- El-Shafeiy, E., Alsabaan, M., Ibrahim, M. I., & Elwahsh, H. (2023). Real-Time Anomaly Detection for Water Quality Sensor Monitoring Based on Multivariate Deep Learning Technique. *Sensors (Basel, Switzerland)*, 23(20). <https://doi.org/10.3390/s23208613>.
- Erawati, P., Prasti, D., & Kriswinarso, T. B. (2025). Internet of Things (IoT)-Based Water Quality Monitoring System Design for Tilapia Fish Farming Ponds. *Brilliance: Research of Artificial Intelligence*, 5(2), 860–869. <https://doi.org/10.47709/brilliance.v5i2.6927>.
- Escalada, M. P. C. E., Visco, M. T. Y. S., Yapsangco, A. V. G., Buenaventura, J. G., & Ilao, A. L. (2025). Water Refilling Stations for Monitoring Water Quality Using Sensors†. *Engineering Proceedings*, 108(1). <https://doi.org/10.3390/engproc2025108054>.

- Esmaili, F., Cassie, E., Nguyen, H. P. T., Plank, N. O. V., Unsworth, C. P., & Wang, A. (2023). Anomaly Detection for Sensor Signals Utilizing Deep Learning Autoencoder-Based Neural Networks. *Bioengineering*, 10(4). <https://doi.org/10.3390/bioengineering10040405>.
- Forhad, H. M., Uddin, M. R., Chakrovorty, R. S., Ruhul, A. M., Faruk, H. M., Kamruzzaman, S., Sharmin, N., Jamal, A. S. I. M., Haque, M. M. U., & Morshed, A. M. (2024). IoT based Real-Time Water Quality Monitoring System In Water Treatment Plants (WTPs). *Heliyon*, 10(23). <https://doi.org/10.1016/j.heliyon.2024.e40746>.
- Ghinea, L. M., Miron, M., & Barbu, M. (2023). Semi-Supervised Anomaly Detection of Dissolved Oxygen Sensor in Wastewater Treatment Plants. *Sensors*, 23(19). <https://doi.org/10.3390/s23198022>.
- Givnan, S., Chalmers, C., Fergus, P., Ortega-martorell, S., & Whalley, T. (2022). Anomaly Detection Using Autoencoder Reconstruction upon Industrial Motors. *Sensors*, 22(9). <https://doi.org/10.3390/s22093166>.
- Jayaraman, P., Nagarajan, K. K., Partheeban, P., & Krishnamurthy, V. (2024). Critical Review on Water Quality Analysis Using IoT and Machine Learning Models. *International Journal of Information Management Data Insights*, 4(1). <https://doi.org/10.1016/j.ijime.2023.100210>.
- Jiang, X., Kirsten, K. L., & Qadeer, A. (2025). Contaminants in the Water Environment: Significance from the Perspective of the Global Environment and Health. Dalam *Water (Switzerland)* (Vol. 17, Nomor 9). Multidisciplinary Digital Publishing Institute (MDPI). <https://doi.org/10.3390/w17091257>.
- Li, D., Yang, C., & Li, Y. (2024). A Multi-Subsystem Collaborative Bi-LSTM-Based Adaptive Soft Sensor for Global Prediction of Ammonia-Nitrogen Concentration in Wastewater Treatment Processes. *Water Research*, 254. <https://doi.org/10.1016/j.watres.2024.121347>.
- Li, Z., Zhao, Y., Hu, X., Botta, N., Ionescu, C., & Chen, G. H. (2023). ECOD: Unsupervised Outlier Detection Using Empirical Cumulative Distribution Functions: IEEE Transactions on Knowledge and Data Engineering, 35(12), 12181-12193. <https://doi.org/10.1109/TKDE.2022.3159580>.
- Liu, X., Gong, Z., & Zhang, X. (2025). Research on Anomaly Detection in Wastewater Treatment Systems Based on a VAE-LSTM Fusion Model. *Water (Switzerland)*, 17(19). <https://doi.org/10.3390/w17192842>.
- Meshram, S., Ramachandran, S., Mangal, A., Mohanlal Shahu, S., Elampulakkadu, A., Mukhopadhyay, A., Rao, P. K., B Pillai, S. R., Baghini, M. S., & Bandyopadhyaya, R. (2025). AquaSys: An Autonomous, Wireless Real-Time Water Quality Monitoring System for pH and Temperature Measurement. *Sensors and Actuators A: Physical*, 396, 117107. <https://doi.org/10.1016/j.sna.2025.117107>.
- Nicholaus, I. T., Park, J. R., Jung, K., Lee, J. S., & Kang, D. K. (2021). Anomaly Detection of Water Level Using Deep Autoencoder. *Sensors*, 21(19). <https://doi.org/10.3390/s21196679>.
- Prasetyoaji, M. R. E., & Anifah, L. (2025). Design of Smart Hydroponics Based on Internet of Things (IoT) Using Rule-Based System on Hydroponic Wick System. *Journal FORTEI-JEERI*, 6(1), 51–62. <https://doi.org/10.46962/forteijeeri.v6i1.34>.

- Ramadhan, M. R. S., Akbar, I. N., Suyatna, S. F., Octaviani, Y., Suhendi, A., & Fitriyanti, N. (2025). Use Of Multinode Sensors in an Internet of Things (IoT) Based Temperature Monitoring System for a Ball Tea Machine. *Journal of Physics: Conference Series*, 2942(1). <https://doi.org/10.1088/1742-6596/2942/1/012044>.
- Satra, R., Hadi, M. S., Sujito, Febryan, Fattah, M. H., & Busaeri, S. R. (2024). IoAT: Internet of Aquaculture Things for Monitoring Water Temperature in Tiger Shrimp Ponds with DS18B20 Sensors and WeMos D1 R2. *Journal of Robotics and Control (JRC)*, 5(1), 62–71. <https://doi.org/10.18196/jrc.v5i1.18470>.
- Sheikh, M., Harami, H. R., Rezakazemi, M., Valderrama, C., Cortina, J. L., & Aminabhavi, T. M. (2023). Efficient NH₃-N Recovery from Municipal Wastewaters Via Membrane Hybrid Systems: Nutrient-Energy-Water (NEW) Nexus in Circular Economy. In *Chemical Engineering Journal* (Vol. 465). Elsevier B.V. <https://doi.org/10.1016/j.cej.2023.142876>.
- Sugiharto, W. H., Susanto, H., & Prasetyo, A. B. (2023). Real-Time Water Quality Assessment via IoT: Monitoring pH, TDS, Temperature, and Turbidity. *Ingenierie Des Systemes d'Information*, 28(4), 823–831. <https://doi.org/10.18280/isi.280403>.
- Yang, S., Behzadian, K., Coleman, C., Holloway, T. G., & Campos, L. C. (2025). Application of AI-Based Techniques for Anomaly Management in Wastewater Treatment Plants: A Review. In *Journal of Environmental Management* (Vol. 392). Academic Press. <https://doi.org/10.1016/j.jenvman.2025.126886>.
- Zidaoui, I., Wemmert, C., Joannis, C., Isel, S., Wertel, J., & Vazquez, J. (2025). Application of Resnet and Autoencoder Models for Anomaly Detection in Wastewater Networks Data: A Comparative Study of Supervised and Unsupervised Approaches: Resnet and Autoencoders for Anomaly Detection in Wastewater Data. *Flow Measurement and Instrumentation*, 105. <https://doi.org/10.1016/j.flowmeasinst.2025.102946>.
- Zygal, L., Zhu, R. Y., Zhang, L., Zghiche, A., Zabi, A., Yu, S. S., Wadud, M. A., Wang, J., Wang, C., Wamorkar, T., Wachirapusanand, V., Vlassov, E., Verma, P., Venditti, R., Varela, J., Vagnerini, A., Valsecchi, D., Usai, E., Tsai, L. S., Abadjiev, D. (2024). Autoencoder-Based Anomaly Detection System for Online Data Quality Monitoring of the CMS Electromagnetic Calorimeter. *Computing and Software for Big Science*, 8(1). <https://doi.org/10.1007/s41781-024-00118-z>.