Daftar Pustaka

- K. Shaheen, A. Chawla, F. E. Uilhoorn, and P. S. Rossi, "Sensor-Fault Detection, Isolation and Accommodation for Natural-Gas Pipelines Under Transient Flow," *IEEE Trans Signal Inf Process Netw*, vol. 10, pp. 264–276, 2024, doi: 10.1109/TSIPN.2024.3377134.
- [2] S. Li, R. Huang, W. Xu, Z. Zuo, and S. Liang, "Unsupervised leak detection of natural gas pipe based on leak-free flow data and deep auto-encoder," in *Proceedings - 2022 Chinese Automation Congress, CAC 2022*, Institute of Electrical and Electronics Engineers Inc., 2022, pp. 678–683. doi: 10.1109/CAC57257.2022.10054970.
- [3] Z. Zuo, H. Zhang, L. Ma, T. Liu, and S. Liang, "Leak Detection for Natural Gas Gathering Pipelines under Multiple Operating Conditions Using RP-1dConvLSTM-AE and Multimodel Decision," *IEEE Transactions on Industrial Electronics*, vol. 71, no. 6, pp. 6263–6273, Jun. 2024, doi: 10.1109/TIE.2023.3294645.
- [4] Y. Cao *et al.*, "A gas pipeline leakage detection method based on multichannel acoustic signals," in 2023 3rd International Conference on Electrical Engineering and Mechatronics Technology, ICEEMT 2023, Institute of Electrical and Electronics Engineers Inc., 2023, pp. 602–606. doi: 10.1109/ICEEMT59522.2023.10263263.
- [5] H. Gemeinhardt and J. Sharma, "Machine-Learning-Assisted Leak Detection Using Distributed Temperature and Acoustic Sensors," *IEEE Sens J*, vol. 24, no. 2, pp. 1520–1531, Jan. 2024, doi: 10.1109/JSEN.2023.3337284.
- [6] X. Li *et al.*, "A Leak Detection Algorithm for Natural Gas Pipeline Based on Bhattacharyya Distance," in *International Conference on Advanced Mechatronic Systems*, *ICAMechS*, IEEE Computer Society, 2021, pp. 33–36. doi: 10.1109/ICAMechS54019.2021.9661531.
- S. Badar, S. Labghough, A. Al-Abdulghani, E. Mohammed, O. Bouhali, and K. A. Qaraqe,
 "Machine Learning Assisted Approach for Water Leaks Detection," in *International Conference on Information Networking*, IEEE Computer Society, 2023, pp. 433–437. doi: 10.1109/ICOIN56518.2023.10048954.
- [8] A. Hevapathige, "Evaluation of Deep Learning Approaches for Anomaly Detection," in 5th SLAAI -International Conference on Artificial Intelligence and 17th Annual Sessions, SLAAI-ICAI 2021, Institute of Electrical and Electronics Engineers Inc., 2021. doi: 10.1109/SLAAI-ICAI54477.2021.9664669.
- [9] A. F. Ihsan and W. Astuti, "Deep Learning Based Anomaly Detection on Natural Gas Pipeline Operational Data," in 2022 2nd International Conference on Intelligent Cybernetics Technology and Applications, ICICyTA 2022, Institute of Electrical and Electronics Engineers Inc., 2022, pp. 228–233. doi: 10.1109/ICICyTA57421.2022.10037988.
- [10] Vasil. Sgurev, 2020 IEEE 10th International Conference on Intelligent Systems (IS) : proceedings. IEEE, 2020.
- [11] H. Liao et al., "Application of Natural Gas Pipeline Leakage Detection Based on Improved DRSN-CW," in Proceedings of 2021 IEEE International Conference on Emergency Science and Information Technology, ICESIT 2021, Institute of Electrical and Electronics Engineers Inc., 2021, pp. 514–518. doi: 10.1109/ICESIT53460.2021.9696455.
- [12] M. V. Nagabhusanam, S. Siva Priyanka, A. S. Kumar, S. Prahasita, and G. Sahithi, "Credit Card Fraud Detection with Auto Encoders and Artificial Neural Networks," in 2023 14th International Conference on Computing Communication and Networking Technologies, ICCCNT 2023, Institute of Electrical and Electronics Engineers Inc., 2023. doi: 10.1109/ICCCNT56998.2023.10308011.
- [13] A. N. Ragozin and A. D. Pletenkova, "Artificial Neural Network Predictive Autoencoder with Pre-

Digital Signal Processing Unit," in *Proceedings - 2023 International Russian Smart Industry Conference, SmartIndustryCon 2023*, Institute of Electrical and Electronics Engineers Inc., 2023, pp. 528–532. doi: 10.1109/SmartIndustryCon57312.2023.10110779.

- [14] 2020 IEEE International Conference on Prognostics and Health Management (ICPHM). IEEE, 2020.
- [15] D. Kampelopoulos, N. Karagiorgos, G. N. Papastavrou, S. K. Goudos, G. P. Kousiopoulos, and S. Nikolaidis, "Machine Learning Model Comparison for Leak Detection in Noisy Industrial Pipelines."
- [16] F. S. Bayram, M. Dwedar, A. Melke, R. Schneider, R. Radtke, and A. Jesser, "AnomalyBAGS: Bagging-based Ensemble Learning with Time-Series-to-Image Transformations for Robust Anomaly Detection," in *International Conference on Engineering Technologies and Applied Sciences: Shaping the Future of Technology through Smart Computing and Engineering, ICETAS* 2023, Institute of Electrical and Electronics Engineers Inc., 2023. doi: 10.1109/ICETAS59148.2023.10346596.
- [17] A. Ali, "Ensemble Learning Model for Prediction of Natural Gas Spot Price Based on Least Squares Boosting Algorithm," in 2020 International Conference on Data Analytics for Business and Industry: Way Towards a Sustainable Economy, ICDABI 2020, Institute of Electrical and Electronics Engineers Inc., Oct. 2020. doi: 10.1109/ICDABI51230.2020.9325615.
- [18] A. Nawaz, S. S. Khan, and A. Ahmad, "Ensemble of Autoencoders for Anomaly Detection in Biomedical Data: A Narrative Review," *IEEE Access*, vol. 12, pp. 17273–17289, 2024, doi: 10.1109/ACCESS.2024.3360691.
- [19] R. Singh, "Performance Optimization of Autoencoder Neural Network Based Model for Anomaly Detection in Network Traffic," in 2022 2nd International Conference on Advance Computing and Innovative Technologies in Engineering, ICACITE 2022, Institute of Electrical and Electronics Engineers Inc., 2022, pp. 598–602. doi: 10.1109/ICACITE53722.2022.9823785.
- [20] R. R. Gayathiri and M. Nirmala Devi, "Unsupervised Anomaly Detection to handle Imbalanced Datasets using Auto encoders for ECG signal Classification," in *ICSCCC 2023 - 3rd International Conference on Secure Cyber Computing and Communications*, Institute of Electrical and Electronics Engineers Inc., 2023, pp. 263–268. doi: 10.1109/ICSCCC58608.2023.10176711.
- [21] Y. Han, Y. Ma, J. Wang, and J. Wang, "Research on ensemble model of anomaly detection based on autoencoder," in *Proceedings - 2020 IEEE 20th International Conference on Software Quality, Reliability, and Security, QRS 2020*, Institute of Electrical and Electronics Engineers Inc., Dec. 2020, pp. 414–417. doi: 10.1109/QRS51102.2020.00060.
- [22] J. Wu, Z. Zhao, H. Shang, C. Sun, R. Yan, and X. Chen, "Machine Anomaly Detection under Changing Working Condition with Syncretic Self-Regression Auto-Encoder," in *Conference Record - IEEE Instrumentation and Measurement Technology Conference*, Institute of Electrical and Electronics Engineers Inc., May 2021. doi: 10.1109/I2MTC50364.2021.9460002.