DAFTAR PUSTAKA

[1]   D. Zheng, X. Sun, S. K. Damarla, A. Shah, J. Amalraj, dan B. Huang, "Valve Stiction Detection and Quantification Using a K-Means Clustering Based Moving Window Approach," Ind. Eng. Chem. Res., vol. 60, no. 6, hlm. 2563– 2577, Feb 2021, doi: 10.1021/acs.iecr.0c05609

[2]   N. F. Thronhill and A. Horch, "Advances and New Directions in Plant-Wide Disturbance Detection and Diagnosis," Control Engineering Practice, vol. 15, pp. 1196-1206, 2007.

[3]   L. Desborough dan R. Miller, "Increasing Customer Value of Industrial Control Performance Monitoring— Honeywell Experience," AIChE Symp, vol. 98, hlm. 153– 186, Jan 2002.

[4]   W. L. Bialkowski, "Dreams vs. Reality: A View from Both Sides of The Gap," Pulp Pap, vol. 94, hlm. 19–27, 1994.

[5]   B. S. Torres, F. B. Carvalho, M. O. Fonseca, dan C. S. Filho, "Performance Assessment of Control Loops − Case Studies," Proc IFAC ADCHEM, hlm. 1–6, 2006.

[6]   F. Holstein, "Control Loop Performance Monitor," Tesis, Lund University, Lund, Swedia, 2004.

[7]   J. Wang, B. Huang, dan S. Lu, "Improved DCT-Based Method for Online Detection of Oscillations in Univariate Time Series," Control Eng. Pract., vol. 21, no. 5, hlm. 622– 630, Feb 2013, doi: 10.1016/j.conengprac.2012.12.007.

[8]   Z. Guo, L. Xie, T. Ye, dan A. Horch, "Online Detection of Time-Variant Oscillations Based on Improved ITD," Control Eng. Pract., vol. 32, hlm. 64–72, Agu 2014, doi: 10.1016/j.conengprac.2014.07.002.

[9]   M. Jelali and B. Huang, "Detection of Oscillating Control Loops," Detection and Diagnosis of Stiction in Control Loop: State of the Art and Advanced Methods, London, Springer, pp. 81-94, January 2010.

[10] R. Srinivasan, R. Rengaswamy, dan R. Miller, "Control Loop Performance Assessment. 1. A Qualitative Approach for Stiction Diagnosis," Ind. Eng.

Chem. Res., vol. 44, no. 17, hlm. 6708–6718, Agu 2005, doi: 10.1021/ie0490280.

[11] M. Farenzena dan J. O. Trierweiler, "Valve Stiction Evaluation Using Global Optimization," IFAC Proceedings Volumes, vol. 42, no. 11, hlm. 512–517, 2009, doi: 10.3182/20090712-4-TR-2008.00082.

[12] J. W. V. Dambros, J. O. Trierweiler, M. Farenzena, dan M. Kloft, "Oscillation Detection in Process Industries by a Machine Learning-Based Approach," Ind. Eng. Chem. Res., vol. 58, no. 31, hlm. 14180–14192, Jul 2019, doi: 10.1021/acs.iecr.9b01456.

[13] R. Rai, M. K. Tiwari, D. Ivanov, dan A. Dolgui, "Machine Learning in Manufacturing and Industry 4.0 Applications," Int. J. Prod. Res., vol. 59, no. 16, hlm. 4773–4778, Agu 2021, doi: 10.1080/00207543.2021.1956675.

[14] H. Liu, J. Zhou, Y. Zheng, W. Jiang, and Y. Zhang, "Fault diagnosis of rolling bearings with recurrent neural network-based autoencoders," *ISA Transactions*, vol. 77, pp. 167–178, Jun. 2018, doi: https://doi.org/10.1016/j.isatra.2018.04.005.

[15] T. de Bruin, K. Verbert, and R. Babuška, "Railway Track Circuit Fault Diagnosis Using Recurrent Neural Networks," *IEEE Transactions on Neural Networks and Learning Systems*, vol. 28, no. 3, pp. 523–533, Mar. 2017, doi: https://doi.org/10.1109/TNNLS.2016.2551940.

[16] H. Zhao, S. Sun, and B. Jin, "Sequential fault diagnosis based on LSTM neural network," IEEE Access, vol. 6, pp. 12929– 12939, 2018.

[17] J. J. Downs dan E. F. Vogel, "A Plant-wide Industrial Process Control Problem," Comput. Chem. Eng., vol. 17, no. 3, hlm. 245–255, 1993, doi: 10.1016/0098- 1354(93)80018-I.

[18] K. Zheng, B. Huang and G. Ji, "Multiple Oscillations Detection in Control Loops by Using the DFT and Rayleigh Distribution," IFAC-PaperOnline, vol. 48, no. 21, pp. 529-534, 2015.

[19] E. Naghoosi and B. Huang, "Diagnosis of Oscillations Between Controller Tuning and Harmonic External Disturbances," in IEEE Transactions on

Control Systems Technology, vol. 23, no. 4, pp. 1283-1293, July 2015, doi: 10.1109/TCST.2014.2363169.

[20] P. Park, P. D. Marco, H. Shin, dan J. Bang, "Fault Detection and Diagnosis Using Combined Autoencoder and Long Short-Term Memory Network," Sensors, vol. 19, no. 21, hlm. 4612, Okt 2019, doi: 10.3390/s19214612

[21] Y. Y. S. Henry, C. Aldrich, dan H. Zabiri, "Detection and Severity Identification of Control Valve Stiction in Industrial Loops Using Integrated Partially Retrained CNN-PCA Frameworks," Chemom. Intell. Lab. Syst., vol. 206, hlm. 104143, Agu 2020, doi: 10.1016/j.chemolab.2020.104143.

[22] Y. Yao, J. Zhang, W. Luo, dan Y. Dai, "A Hybrid Intelligent Fault Diagnosis Strategy for Chemical Processes Based on Penalty Iterative Optimization," Processes, vol. 9, no. 8, hlm. 1266, Jul 2021, doi: 10.3390/pr9081266.

[23] Fisher Controls International LLC dan Emerson Automation Solutions, Control Valve Handbook 5th Edition, 5th edition. Emerson, 2017

[24] L. F. Passos, B. S. Torres and V. J. P. Rodrigues, "Methodology for Reducing The Control Loops Oscillation At An Iron Ore Processing Plant," in Fifth International Meeting of Instrumentation, Systems and Automation – ISA Show, São Paulo, 2005.

[25] Beckman, D., & Jury, F. "Reducing process variability with control valves", Internal Report), Fisher Controls International Inc., Marshalltown, Iowa, 1997.

[26] M. L. Corradini and G. Orlando, "Robust stabilization of nonlinear uncertain plants with backlash or dead zone in the actuator," IEEE Transactions on Control Systems Technology, vol. 10, no. 1, pp. 158–166, Jan. 2002, doi: https://doi.org/10.1109/87.974349.

[27] R. Isermann and U. Raab, "Intelligent actuators—Ways to autonomous actuating systems," Automatica, vol. 29, no. 5, pp. 1315–1331, Sep. 1993, doi: https://doi.org/10.1016/0005-1098(93)90052-u.

[28] Desborough, L. and Miller, R. (2002) Increasing Customer Value of Industrial Control Performance Monitoring— Honeywell Experience. In

Rawlings, J.B., Ogunnaike, B.A. and Eaton, J.W., Eds., 6th International Conference on Chemical Process Control, AIChE Symp., Series 326, AIChE, New York, 172-192. - References - Scientific Research Publishing,www.scirp.org.,

https://www.scirp.org/(S(351jmbntvnsjt1aadkposzje))/reference/References Papers.aspx?ReferenceID=1251338 (accessed Mar. 04, 2023).

[29] Weldon A. D. "Control valves- The key component in managing process variability". Tappi journal, 80(8):71-74, 1997.

[30] M. A. A. S. Choudhury, S. L. Shah, dan N. F. Thornhill, Diagnosis of Process Nonlinearities and Valve Stiction: Data Driven Approaches. Berlin, London: Springer, 2008.

[31] A. Horch, "Benchmarking Control Loops with Oscillations and Stiction," dalam Process Control Performance Assessment from Theory to Implementation, A. W. Ordys, D. Udaehi, dan M. A. Johnson, Ed. New York, USA: Springer-Verlag New York, LLC, 2007, hlm. 227–257.

[32] S. Karra and M. N. Karim, "Comprehensive methodology for detection and diagnosis of oscillatory control loops," Control Engineering Practice, vol. 17, no. 8, pp. 939–956, Aug. 2009, doi: https://doi.org/10.1016/j.conengprac.2009.02.015.

[33] K. Ghosh, U. Nallasivam and N. Kubal, "A Method for Automatic Detection of Controller Tuning Issues," IFAC-PaperOnLine, vol. 48, no. 8, pp. 765-770, 2015.

[34] N. Thornhill, B. Huangb and H. Zhangc, "Detection of Multiple Oscillations in Control Loops," Journal of Process Control, vol. 13, pp. 91-100, 2003.

[35] E. L. Russell, L. H. Chiang, dan R. D. Braatz, "Tennessee Eastman Process," dalam Data-Driven Methods for Fault Detection and Diagnosis in Chemical Processes, London, UK: Springer London, 2000, hlm. 99–108. doi: https://doi.org/10.1007/978-1-4471-0409-4_8.

[36] T. Jockenhövel, L. T. Biegler, dan A. Wächter, "Dynamic Optimization of the Tennessee Eastman Process Using the OptControlCentre," Comput.

Chem. Eng., vol. 27, no. 11, hlm. 1513–1531, Nov 2003, doi: 10.1016/S0098-1354(03)00113-3

[37] C. Janiesch, P. Zschech, and K. Heinrich, "Machine learning and deep learning," Electronic Markets, vol. 31, Apr. 2021, doi: https://doi.org/10.1007/s12525-021-00475-2.

[38] Bishop, C. M. "Pattern recognition and machine learning (Information science and statistics)". Springer-Verlag New York, Inc, 2006.

[39] D. Sarkar, R. Bali, and T. Sharma, Practical Machine Learning with Python. Berkeley, CA: Apress, 2018. doi: https://doi.org/10.1007/978-1-4842-3207-1.

[40] M. Barandas, D. Folgado, L. Fernandes, S. Santos, M. Abreu, P. Bota, H. Liu, T. Schultz and H. Gamboa, "TSFEL: Time Series Feature Extraction Library," SoftwareX, vol. 11, pp. 1-7, 2020.

[41] Y. Y. S. Henry, C. Aldrich, dan H. Zabiri, "Detection and severity identification of control valve stiction in industrial loops using integrated partially retrained CNN-PCA frameworks," Chemometrics and Intelligent Laboratory Systems, vol. 206, hlm. 104143, Nov 2020, doi: 10.1016/j.chemolab.2020.104143

[42] E. Keogh, S. Chu, D. Hart, and M. Pazzani, "An online algorithm for segmenting time series," Proceedings 2001 IEEE International Conference on Data Mining, doi: https://doi.org/10.1109/icdm.2001.989531.

[43] J. Ferreira et al., "Driver behavior profiling: An investigation with different smartphone sensors and machine learning," PLOS ONE, vol. 12, no. 4, p. e0174959, Apr. 2017, doi: https://doi.org/10.1371/journal.pone.0174959.

[44] I. Markoulidakis, I. Rallis, I. Georgoulas, G. Kopsiaftis, A. Doulamis, dan N. Doulamis, "Multiclass Confusion Matrix Reduction Method and Its Application on Net Promoter Score Classification Problem," Technologies, vol. 9, no. 4, hlm. 81, Nov 2021, doi: 10.3390/technologies9040081.

[45] A. Kumar, E. Mocanu, M. Babar and P. H. Nguyen, "Collaborative learning for classification and prediction of building energy flexibility," 2019 IEEE PES Innovative Smart Grid Technologies Europe (ISGT-Europe), 2019, pp. 1-5, doi: 10.1109/ISGTEurope.2019.8905597.

[46] M. Grandini, E. Bagli, and G. Visani, "Metrics for Multi-Class Classification: an Overview," ArXiv, 2020, Accessed: Mar. 04, 2023. [Online]. Available: https://www.semanticscholar.org/paper/Metrics-for-Multi-Class-Classification%3A-an-Overview-Grandini-Bagli/2c9022fe0af15568a885e59d475ec8f95726e51b

[47] V. Lampkin, W. T. Leong, L. Olivera, S. Rawat, N. Subrahmanyam, dan R. Xiang, Building Smarter Planet Solutions with MQTT and IBM WebSphere MQ Telemetry, 1 ed. Armonk, New York, USA: International Business Machines Corporation, 2012.

[48] S. Sharma, V. Kumar, dan K. P. S. Rana, "Machine Learning Application for Oscillation Detection in Control Loops," dalam Soft Computing: Theories and Applications, vol. 1053, M. Pant, T. K. Sharma, O. P. Verma, 83 R. Singla, dan A. Sikander, Ed. Singapore: Springer Singapore, 2020, hlm. 1067–1075. doi: 10.1007/978-981-15-0751-9_98

[49] C. E. Metz, "Basic principles of ROC analysis," Seminars in Nuclear Medicine, vol. 8, no. 4, hlm. 283–298, Okt 1978, doi: 10.1016/S0001-2998(78)80014-2.

[50] K. Ogata, Modern control engineering. Delhi: Pearson, 2016.