

## REFERENCES

- [1] M. Singh, B. K. Panigrahi, and R. P. Maheshwari, "Transmission line fault detection and classification," in *2011 International Conference on Emerging Trends in Electrical and Computer Technology*, 2011, pp. 15–22.
- [2] En.wikipedia.org. 2020. *Electric Power Transmission*. [online] Available at: <[https://en.wikipedia.org/wiki/Electric\\_power\\_transmission](https://en.wikipedia.org/wiki/Electric_power_transmission)> [Accessed 12 April 2020].
- [3] K. Chen, J. Hu and J. He, "Detection and Classification of Transmission Line Faults Based on Unsupervised Feature Learning and Convolutional Sparse Autoencoder," in *IEEE Trans. on Smart Grid*, vol. 9, no. 3, pp. 1748-1758, May 2018.
- [4] T. Gönen, *Electric power transmission system engineering analysis and design*, 2nd ed. Boca Raton: CRC Press, 2009.
- [5] H. Saadat, *Power System Analysis*. PSA Publishing, 2010.
- [6] Youssef, O.A.: 'Fault classification based on wavelet transforms'. IEEE/PES Transmission and Distribution Conf. and Exposition, 2001, pp. 531–536.
- [7] Lin, W.M., Yang, C.D., Lin, J.H., et al.: 'A fault classification method by RBF neural network with OLS learning procedure', *IEEE Trans. Power Deliv.*, 2001, 16, pp. 473–477.
- [8] Kashyap, K.H., Shenoy, U.J.: 'Classification of power system faults using wavelet transforms and probabilistic neural networks'. Proc. 2003 Int. Symp. On Circuits and Systems, 2003, ISCAS'03, 2003, vol. 3, pp. III-423–III-426.
- [9] Chanda, D., Kishore, N.K., Sinha, A.K.: 'A wavelet multiresolution analysis for location of faults on transmission lines', *Int. J. Electr. Power Energy Syst.*, 2003, 25, pp. 59–69.
- [10] Sanaye-Pasand, M., Khorashadi-Zadeh, H.: 'Transmission line fault detection & phase selection using ANN', Int. Conf. Power Systems Transients, New Orleans, USA, September 2003, pp. 33–53.
- [11] Pradhan, A.K., Routray, A., Pati, S., et al.: 'Wavelet fuzzy combined approach for fault classification of a series-compensated transmission line', *IEEE Trans. Power Deliv.*, 2004, 19, pp. 1612–1618.

- [12] Khorashadi-Zadeh, H.: ‘Artificial neural network approach to fault classification for double circuit transmission lines’. 2004 IEEE/PES Transmission & Distribution Conf. & Exposition, Latin America, 2004, pp. 859–862.
- [13] Dash, P.K., Samantaray, S.R.: ‘An accurate fault classification algorithm using a minimal radial basis function neural network’, *Eng. Intell. Syst. Electr. Eng. Commun.*, 2004, 12, pp. 205–210.
- [14] Mahanty, R.N., Dutta Gupta, P.B.: ‘Application of RBF neural network to fault classification and location in transmission lines’, *IEEE Proc., Gener. Transm. Distrib.*, 2004, 151, p. 201.
- [15] Thukaram, D., Khincha, H.P., Vijaynarasimha, H.P.: ‘Artificial neural network and support vector machine approach for locating faults in radial distribution systems’, *IEEE Trans. Power Deliv.*, 2005, 20, pp. 710–721.
- [16] Sedighi, A.-R., Haghifam, M.-R., Malik, O., et al.: ‘High impedance fault detection based on wavelet transform and statistical pattern recognition’, *IEEE Trans. Power Deliv.*, 2005, 20, pp. 2414–2421.
- [17] Silva, K.M., Souza, B.A., Brito, N.S.D.: ‘Fault detection and classification in transmission lines based on wavelet transform and ANN’, *IEEE Trans. Power Deliv.*, 2006, 21, pp. 2058–2063.
- [18] Jayabharata Reddy, M., Mohanta, D.K.: ‘A wavelet-fuzzy combined approach for classification and location of transmission line faults’, *Int. J. Electr. Power Energy Syst.*, 2007, 29, pp. 669–678.
- [19] Jung, C.K., Kim, K.H., Lee, J.B., et al.: ‘Wavelet and neuro-fuzzy based fault location for combined transmission systems’, *Int. J. Electr. Power Energy Syst.*, 2007, 29, pp. 445–454.
- [20] Parikh, U.B., Das, B., Maheshwari, R.P.: ‘Combined wavelet-SVM technique for fault zone detection in a series compensated transmission line’, *IEEE Trans. Power Deliv.*, 2008, 23, pp. 1789–1794.
- [21] Upendar, J., Gupta, C.P., Singh, G.K.: ‘Discrete wavelet transform and probabilistic neural network based algorithm for classification of fault on transmission systems’. Proc. of the Indicon 2008 IEEE Conf. & Exhibition on Control, Communications and Automation, 2008, vol I, pp. 206–211.

- [22] Samantaray, S.R.: ‘Decision tree-based fault zone identification and fault classification in flexible AC transmissions-based transmission line’, *IET Gener. Transm. Distrib.*, 2009, 3, pp. 425–436.
- [23] Jamehbozorg, A., Shahrtash, S.M.: ‘A decision-tree-based method for fault classification in single-circuit transmission lines’, *IEEE Trans. Power Deliv.*, 2010, 25, pp. 2190–2196.
- [24] Korkali, M., Lev-Ari, H., Abur, A.: ‘Traveling-wave-based fault-location technique for transmission grids via wide-area synchronized voltage measurements’, *IEEE Trans. Power Syst.*, 2012, 27, pp. 1003–1011.
- [25] Jiang, Q., Li, X., Wang, B., et al.: ‘PMU-based fault location using voltage measurements in large transmission networks’, *IEEE Trans. Power Deliv.*, 2012, 27, pp. 1644–1652.
- [26] Capar, A., Arsoy Basa, A.: ‘A performance oriented impedance based fault location algorithm for series compensated transmission lines’, *Int. J. Electr. Power Energy Syst.*, 2015, 71, pp. 209–214.
- [27] Florian Rudin, Guo-Jie Li , Keyou Wang: ‘An Algorithm for Power System Fault Analysis based on Convolutional Deep Learning Neural Networks’, *IJARESM*, Volume 5, Issue 9, September- 2017.
- [28] A. Jain, T. C. Archana and M. B. K. Sahoo, "A Methodology for Fault Detection and Classification Using PMU Measurements," 2018 20th National Power Systems Conference (NPSC), Tiruchirappalli, India, 2018, pp. 1-6.
- [29] K. Chen, C. Huang, and J. L. He, “Fault detection, classification and location for transmission lines and distribution systems: A review on the methods,” *High Voltage*, vol. 1, no. 1, pp. 25–33, 2016.
- [30] En.wikipedia.org. 2020. *Deep Learning*. [online] Available at: <[https://en.wikipedia.org/wiki/Deep\\_learning](https://en.wikipedia.org/wiki/Deep_learning)> [Accessed 12 April 2020].
- [31] En.wikipedia.org. 2020. *Artificial Neural Network*. [online] Available at: <[https://en.wikipedia.org/wiki/Artificial\\_neural\\_network](https://en.wikipedia.org/wiki/Artificial_neural_network)> [Accessed 12 April 2020].
- [32] T. Katte, "Recurrent Neural Network and its Various Architecture Types", *International Journal of Research and Scientific Innovation (IJRSI)*, vol. 5, pp. 124-129, 2018.

- [33] En.wikipedia.org. 2020. *MATLAB*. [online] Available at: <<https://en.wikipedia.org/wiki/MATLAB>> [Accessed 12 April 2020].
- [34] En.wikipedia.org. 2020. *Neurosolutions*. [online] Available at: <<https://en.wikipedia.org/wiki/NeuroSolutions>> [Accessed 12 April 2020].
- [35] M. Kezunovic, "Smart fault location for smart grids," *IEEE Trans. Smart Grid*, vol. 2, no. 1, pp. 11–22, Mar. 2011.