

DAFTAR PUSTAKA

- [1] M. I. Ramos, J. J. Cubilas, and F. R. Feito, "Improvement of the Prediction of Drugs Demand Using Spatial Data Mining Tools", *J. Med. Syst.*, 2016.
- [2] H. Pratyaksa, A. E. Permanasari S. Fauziati, and I. Fitriana, "ARIMA Implementation to Predict the Amount of Antiseptic Medicine Usage in Veterinary Hospital", 2016, no. October, pp. 5-6.
- [3] C. Qingkui and R. Junhu, "Study on the Demand Forecasting of Hospital Stocks Based on Data Mining and BP Neural Networks," in *International Conference on Electronic Commerce and Business Intelligence Study*, 2009, pp. 284–289.
- [4] M. Gebicki, E. Mooney, S. G. Chen, and L. M. Mazur, "Evaluation of Hospital Medication Inventory Policies," *Health Care Manag. Sci.*, vol. 17, no. 3, pp. 215-229, 2014.
- [5] M. Jalalpour, Y. Gel, and S. Levin, "Forecasting demand for health services : Development of a publicly available toolbox," *Oper. Res. Heal. Care*, vol. 5, pp. 1–9, 2015.
- [6] N. K. Zadeh, M. M. Sepehri, and H. Farvaresh, "Intelligent Sales Prediction of Pharmaceutical Distribution Companies: A Data Mining Based Approach," vol. 2014, 2014.
- [7] Á. Lublóy, "Factors affecting the uptake of new medicines : a systematic literature review," *BMC Health Serv. Res.*, pp. 1–25, 2014.
- [8] WHO, "Essential medicines and health products." [Online]. Available: <http://www.who.int/medicines/areas/access/supply/en/index2.html>. [Accessed: 10-Aug-2016].
- [9] D. Alba-Cuellar, A. Eduardo Munoz-Zavala, E. Esther Ponce-de-leon-senti, E. Diaz-Diaz, and A. Hernandez-Aguirre, "Time Series Forecasting with PSO-optimized Neural Networks," in *Thirteenth Mexican International Conference on Artificial Intelligence Time*, 2014, pp. 102-111.
- [10] F. Yu and X. Xu, "A short-term load forecasting model of natural gas based on optimized genetic algorithm and improved BP neural network," *Appl. Energy*, vol. 134, pp. 102-113, 2014.
- [11] I. Khandelwal, R. Adhikari, and G. Verma, "Time Series Forecasting using Hybrid ARIMA and ANN Models based on DWT Decomposition," *Procedia – Procedia Comput. Sci.*, vol. 48, no. 1ccc, pp. 173-179, 2015

- [12] X. Shao, D. Ma, Y. Liu, and Q. Yin, "Short-term Forecast of Stock Price of Multi-branch LSTM Based on K-means," in International Conference on Systems and Informatics, 2017, pp. 1546-1551.
- [13] G. Shen, Q. Tan, H. Zhang, P. Zeng, and J. X., "Deep Learning with Gated Recurrent Unit Networks for Financial Sequence Predictions," in International Congress of Information and Communication Technology, 2018, pp. 895-903.
- [14] F. Nhita, D. Saepudin, Adiwijaya, and U. N. Wisesty, "Comparative Study of Moving Average on Rainfall Time Series Data for Rainfall Forecasting Based on Evolving Neural Network Classifier," *Proc. – 2015 3rd Int. Symp. Comput. Bus. Intell. ISCBI 2015*, pp. 8-12, 2016.
- [15] D. I. Wilson, "The Black Art of Smoothing," *Electr. Autom. Technol.*, no. July, pp. 35-36, 2006.
- [16] O. Ostachchuk, "Time Series Data Prediction and Analysis," Faculty of Electrical Engineering, Czech Technical University in Prague, 2017.
- [17] D. Garcia, "Robust Smoothing of Gridded Data in One and Higher Dimensions with Missing Values," *Comput. Stat. Data Anal.*, pp. 1167-1178, 2009.
- [18] A. Azadeh, M. Sheikhalishahi, M. Tabesh, and A. Negahban, "The Effect of Pre-Processing Methods on Forecasting Improvement of Artificial Neural Networks," *Aust. J. Basic Appl. Sci.*, vol. 5, no. 6, pp. 570-580, 2011.
- [19] S. Anbazhagan and N. Kumarappan, "Day-ahead Deregulated Electricity Market Price Forecasting Using Neural Network Input Featured by DCT," *Energy Convers. Manag.*, vol. 78, pp. 711-719, 2014.
- [20] R. Jammazi and C. Aloui, "Crude Oil Price Forecasting : Experimental Evidence from Wavelet Decomposition and Neural Network Modeling," *Energy Econ.*, vol. 34, no.3, pp.828-841, 2012.
- [21] I. Suryani and R. S. Wahono, "Penerapan Exponential Smoothing untuk Transformasi Data dalam Meningkatkan Akurasi Neural Network pada Produksi Harga Emas," *J. Intell. Syst.*, vol. 1, no. 2, 2015.
- [22] H. L. Weinert, "Efficient Computation for Whittaker-Henderson Smoothing," *Comput. Stat. Data Anal.*, vol. 52, no. 2, pp. 959-974, 2007.
- [23] J. J. Stickel, "Data Smoothing and Numerical Differentiation by a Regularization Method," *Comput. Chem. Eng.*, vol. 34, no. 4, pp. 467-475, 2010.

- [24] H. Pratyaksa, "Penerapan Metode Penghalusan Whittaker Henderson Guna Meningkatkan Akurasi Prediksi Neural Network untuk Prediksi Jumlah Penggunaan Obat," Universitas Gadjah Mada, 2017.
- [25] F. Nakhei, and M. Irannajad, "Application and Comparison of RNN, RBFNN and MNLN Approaches on Prediction of Flotation Column Performance," *Inter. Jour. Min. Sci. Tech.*, vol. 25, no. 6, pp. 983-990, 2015.
- [26] A. J. P. Samarawickrama, and T. G. I. Fernando, "A Recurrent Neural Network Approach in Predicting Daily Stock Prices an Application to the Sri Lankan Stock Market," in International Conference on Industrial and Information Systems, 2017.
- [27] L. Barba, N. Rodriguez, and C. Montt, "Smoothing Strategies Combined with ARIMA and Neural Networks to Improve the Forecasting of Traffic Accidents," *Sci. World J.*, vol. 2014, 2014.
- [28] S. Chountasis, V. N. Katsikis, D. Pappas, and A. Perperoglou, "The Whittaker Smoother and the Moore-Penrose Inverse in Signal Reconstruction," *Appl. Math. Sci.*, vol. 6, no. 25, p. 12051219, 2012.
- [29] I. K. Putri, "Seleksi Input untuk Artificial Neural Network Menggunakan Binary Particle Swarm Optimization dalam Pemodelan Runtun Waktu Kasus Avian Influenza," Universitas Gadjah Mada, 2016.
- [30] G. Lachtermacher and J. D. Fuller, "Backpropagation in Time-series Forecasting," vol. 14, pp. 381- 393, 1995.
- [31] F. S. Wong, "Time Series Forecasting using Backpropagation Neural Networks," vol. 2, pp. 147-159, 1990.
- [32] R. Satyarini, "Menentukan Metode Peramalan yang Tepat," *Bina Ekon.*, vol.11, pp. 59-70, 2007.
- [33] I. N. Soyiri and D. D. Reidpath, "An overview of health forecasting," *Environ. Health Prev. Med.*, vol. 18, pp. 1–9, 2013.
- [34] S. Makridakis, S. C. Wheelwright, and V. E. McGee, *Forecasting: Methods and Applications*, 2nd ed. John Wiley & Sons Inc, 1983.
- [35] M. Al Shamisi, A. Assi, and H. Hejase, "Using MATLAB to Develop Artificial Neural Network Models for Predicting Global Solar Radiation in AI Ain City-UAE," *Intechopen.Com*, pp. 219-238, 2009.
- [36] S. C. Nayak, B. B. Misra, and H. S. Behera, "Impact of Data Normalization on Stock Index Forecasting," vol. 6, pp. 257-269, 2014.

- [37] “Generalized ESD Test for Outliers,” *NIST/SEMATECH e-Handbook of Statistical Methods*. [Online]. Available: <http://www.itl.nist.gov/div898/handbook/eda/section3/eda35h3.htm>. [Accessed: 25-April-2018].
- [38] Kingma, Diederik, and Jimmy Ba. "Adam: A method for stochastic optimization." arXiv preprint arXiv:1412.6980, 2014.