REFERENCES

[1] S. J. Russell and P. Norvig, Artificial Intelligegence,A Modern Approach, 3rd ed., New Jersey: Pearson, 1995.

[2] Lumen, "Boundless Psychology," [Online]. Available: https://courses.lumenlearning.com/boundless-psychology/chapter/neurons/. [Accessed 14 March 2019].

[3] Medium and J. . B. Ahire, "The Artificial Neural Networks Handbook: Part 4," [Online]. Available: https://medium.com/@jayeshbahire/the-artificial-neural-networks-handbook-part-4-d2087d1f583e. [Accessed 5 April 2019].

[4] Maind, B. Sonali and P. Wankar, "Research paper on basic of artificial neural network," *International Journal on Recent and Innovation Trends in Computing and Communication,* vol. 2, no. 1, pp. 96-100, 2014.

[5] J. Singla, D. Grover and A. Bhandari, "Medical Expert Systems for Diagnosis of Various Diseases," *International Journal of Computer Applications,* vol. 93, no. 7, pp. 36-43, May 2014.

[6] R. R. Cantone, F. J. Pipitone, W. B. Lander and M. P. Marrone, "Model-Based Probabilistic Reasoning for Electronics Troubleshooting," *IJCAI,* pp. 207-211, 1983.

[7] R. Yam, P. W. Tse, L. Li and P. Tu, "Intelligent predictive decision support system for condition-based maintenance," *The International Journal of Advanced Manufacturing Technology,* vol. 17, pp. 383-391, 2001.

[8] A. Al-Ajlan, "The comparison between forward and backward chaining," *International Journal of Machine Learning and Computing,* vol. 5, no. 2, p. 106, 2015.

[9] S. Al-Zubaidi, G. A.Jaharah and C. CheHassan , "Application of artificial neural networks in prediction tool life of PVD coated carbide when end milling of TI6aL4v alloy," *International Journal of Mechanics,* vol. 6.3, pp. 179-186, 2012.

[10] M. Zandieh, M. N. Joreir-Ahmadi and A. Fadaei-Rafsanjani, "Buffer allocation problem and preventive maintenance planning in non-homogenous unreliable production lines," *The International Journal of Advanced Manufacturing Technology,* vol. 91.5, no. 8, pp. 2581-2593, 2017.

[11] S. T. Deepta and S. G. Packiavathy, "Expert system for car troubleshooting," *International Journal For Research In Science & Advanced Technologies,* vol. 1, no. 1, pp. 46-49.

[12] Smith, L. Brian and M. J. Demetsky, "Short-term traffic flow prediction: neural network approach.," Transportation Research Record 1453, 1994.

[13] V. Lint, S. P. Hoogendoorn and H. J. van Zuylen, "Accurate freeway travel time prediction with state-space neural networks under missing data," *Transportation Research Part C: Emerging Technologies,* vol. 13.5, no. 6, pp. 347-369, 2005.

[14] Bilgili, Mehmet, B. Sahin and A. Yasar, "Application of artificial neural networks for the wind speed prediction of target station using reference stations data," *Renewable Energy,* vol. 32, no. 14, pp. 2350-2360, 2007.

[15] MathWorks, "Workflow for Neural Network Design," 2019. [Online]. Available: https://www.mathworks.com/help/deeplearning/ug/workflow-for-neural-network-design.html;jsessionid=2ed79e672d5ea96debb450397ac5. [Accessed 12

March 2019].

[16] H. Demuth, M. Beale and M. Hagan, Neural network toolbox. For Use with MATLAB, Natick: The MathWorks Inc, 2000.

[17] MathWorks, "Call MATLAB Function from C# Client," [Online]. Available: https://ch.mathworks.com/help/matlab/matlab_external/call-matlab-function-from-c-client.html. [Accessed 20 April 2019].