Basic Artificial Neural Network Research Paper

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Abstract: *An artificial neural network (ANN) is a paradigm for information processing that takes its cues from how biological nervous systems, like the brain, function. The innovative structure of the information processing system is the fundamental component of this paradigm. It is made up of several, intricately linked processing units called neurons that cooperate to address particular issues. ANNs learn via imitation just like people do. Through a learning process, an ANN is tailored for a particular purpose, such as pattern recognition or data classification. The synaptic connections between the neurons in biological systems change as a result of learning. This also applies to ANNs. This article provides an outline of how artificial neural networks (ANNs) operate and are trained. Additionally, it explains the uses and benefits of ANN.*

Keywords: ANN (Artificial Neural Network), Neurons, pattern recognition.

REFERENCES

[1]. Bradshaw, J.A., Carden, K.J., Riordan, D., 1991. Ecological ―Applications Using a Novel Expert System Shell‖. Comp. Appl. Biosci. 7, 79–83.

[2]. Lippmann, R.P., 1987. An introduction to computing with neural nets. IEEE Accost. Speech Signal Process. Mag., April: 4-22.

[3]. N. Murata, S. Yoshizawa, and S. Amari, ―Learning curves, model selection and complexity of neural networks, ‖ in Advances in Neural Information Processing Systems 5, S. Jose Hanson, J. D. Cowan, and C. Lee Giles, ed. San Mateo, CA: Morgan Kaufmann, 1993, pp. 607-614

[4]. Dahunsi, Owoseni. Cloud computing in Nigeria: The cloud ecosystem perspective; 2015. Available:www.researchgate.com 17. Islam S, et al. Cloud computing technology in

[5]. Bangladesh: A framework of social and economic development. European Scientific Journal. 2015;11:393-410. 18. Awosan. Factor analysis of the adoption of cloud computing in Nigeria;

[6]. Available:https://ms.academicjournals.org/ author_requests/update 19. Foster, Zhao, Raicu, Lu. Cloud computing and grid computing;

[7]. Available:https://www.researchgate.net/publication/23716795_Cloud_Computing_and_Grid_Computing_360- Degree_Compared

[8]. Dogo, Salami, Salman. Feasibility analysis of critical factors affecting cloud computing in Nigeria. October 2013 International Journal of Cloud Computing and Services Science (IJ-CLOSER). 2013;2(4).