Abstract

An artificial neural network is an information processing paradigm that is inspired by the way biological nervous system, such as the brain, process information. The key element of this paradigm is the novel structure of the information processing system. It is composed of large number of highly interconnected processing elements "neurons" working in unison to solve specific problems. ANN, like people, learns by example. An ANN is configured for a specific application, such as pattern recognition or data classification, through a learning process. Learning in biological system involves adjustments to the synaptic connections that exist between the neurons. This is true of ANN as well.

References

Neural Network Vs Human Brains

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- Raymond, E. S. ed. 2003. DWIM. The on-line hacker Jargons File, version 4. 4. 7, 29 Dec 2003,
- New Jersey:Prentice Hall.
- Evolutionary psychology and the generation of culture, eds. J. H. Barkow, L. Cosmides and J. Tooby.
- New York: Oxford University Press.
- Vinge, V. 1993. The Coming Technological Singularity. Presented at the VISION-21 Symposium,

**Index Terms**

Computer Science                      Emerging Trends in Technology
Keywords
Neurons  Dendrites  Axon  Synapse  Cerebral Cortex  Glial Cells  Soma (cell Body)  Hetro
Correlation
Auto Correlation
Partial Patterns.