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Character Recognition
Multilayer neural
networks such as

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Backpropagation
neural networks.
Neocognitron

Applications of Neural Networks - Tutorialspoint

“Human brains and artificial neural networks do learn similarly,” explains Alex Cardinell, Founder and CEO of Cortx, an artificial intelligence company that uses neural networks in the design of its natural

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language processing
solutions, including an
automated grammar
correction application,
Perfect Tense.

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perceptron

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...
Since artificial neural networks allow modeling of nonlinear processes, they have turned into a very popular and useful tool for solving many problems such as classification, clustering,...

**10 Applications of
Artificial Neural**

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Here, we will see the major Artificial Neural Network Applications.

Handwriting

Recognition - The idea of Handwriting recognition has become very important. This is because handheld devices like the Palm Pilot are becoming very popular. Hence, we can use Neural networks to recognize handwritten

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characters.

**Artificial Neural
Network**

**Applications - 4 Real
World ...**

Health care organizations are leveraging machine-learning techniques, such as artificial neural networks (ANN), to improve delivery of care at a reduced cost. Applications of ANN to diagnosis are well-known; however, ANN

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are increasingly used to inform health care management decisions.

Applications of artificial neural networks in health care ...

This article provides a quantitative nondestructive damage detection method through a Lamb wave technique assisted by an artificial neural network model

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for fiber-reinforced
composite structures.
F...

Application of artificial neural networks for quantitative ...

More recently, Elzenary et al. created a model to predict ECD while drilling by utilizing artificial neural network. Their findings illustrated a decent matching among the predicted and the

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actual data. An artificial neural network (ANN) is a simulation of the biological neural system. The biological neuron has a cell body, an axon, and dendrites.

Application of artificial neural networks in the drilling ...

In the specific case of multiphase flows, we find applications of

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neural network
techniques for
estimation of
multiphase flow rates
in oil-gas production
systems (Andrianov
2018), predictive ...

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Artificial neural
networks are paving
the way for life-
changing applications
to be developed for use
in all sectors of the

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economy. Artificial intelligence platforms that are built on ANNs are...

Artificial Neural Network (ANN) Definition

This study presents an intensive artificial neural network ANN model designed using FORTRAN language to predict the drilling rate of penetration ROP with high accuracy. The developed ANN

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model gives a new correlation to be used in ROP prediction as a function of drilling parameters: bit size, mud circulation rate, drilling interval, weight on bit WOB and rotary speed RPM. The back-propagation ...

Application of artificial neural network in optimizing the ...

Commercial artificial
neural network

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applications of this nature include: Credit card fraud detection reportedly being used by Eurocard Nederland, Mellon Bank, First USA Bank, etc. (Bylinsky 1993).

Real-World Applications of Artificial Neural Networks ...

Artificial Neural Networks are currently being used to solve many complex

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problems and the demand is increasing with time. The wide number of applications starting from face recognition to making decisions are being handled by neural networks. The more it is exposed to real-time examples, the more it adapts.

**Neural Networks:
Advantages and
Applications |
MarkTechPost**

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Artificial Neural Networks (ANN) are used in recognition systems, such as speech recognition, handwriting or text recognition, computer vision, and also natural language processing (which...

An Overview of Artificial Neural Networks | by Peter

...

Researchers at the
University of Newcastle

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have implemented a non-neural-network hardware that can significantly cut the power consumption of artificial intelligence. The team trained a neural network, and their technology - a 'Tsetlin machine' - to recognise hand written digits from the standard MNIST data set.

**A low-power AI
alternative to neural**

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Artificial neural networks (ANN) or connectionist systems are computing systems vaguely inspired by the biological neural networks that constitute animal brains.. The data structures and functionality of neural nets are designed to simulate associative memory. Neural nets learn by processing examples, each of

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which contains a known "input" and "result," forming probability-weighted ...

Artificial neural network - Wikipedia

Artificial neural networks (ANNs), as an interesting branch of artificial intelligence (AI), have been developed enormously in medicine, and it is believed that they will have widespread...

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ALPHOGO is one of the most representative applications of deep learning. Then, he will give some examples of Applications of Artificial Neural Networks applications. Artificial neural networks can be applied for AI to play video games. It can also be used for object detection.

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