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Artificial Neural Networks Learning Algorithms

Thanks to so-called 'deep learning,' a subset of artificial intelligence (AI) algorithms inspired by the brain, machines can match human performance in perception and language recognition and even ...

Neural mechanism of autonomous learning uncovered

Deep neural networks usually rapidly forget the previously

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learned tasks while training new ones. Laborieux et al. propose a method for training binarized neural networks inspired by neuronal ...

Synaptic metaplasticity in binarized neural networks

To date, non-wear detection algorithms commonly employ a 30, 60, or even 90 mins interval or window in which acceleration values need to be below a threshold value. A major drawback of such intervals ...

A novel algorithm to detect non-wear time from raw accelerometer data using deep convolutional neural networks

Thanks to the so-called deep learning, a subset of artificial intelligence (AI) algorithms inspired by the brain, machines can match human performance in perception and language recognition and even ...

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IBEC researchers discover the neural mechanism of autonomous learning

Using algorithms ... The easiest version of an artificial neural network has three layers of neurons. Training with human-labeled data constitutes what is called supervised learning because humans ...

Knowing More about Neural Networks

This important work describes recent theoretical advances in the study of artificial neural networks ... of neural network learning, describing a variety of hardness results, and outlining two ...

Neural Network Learning

Chris Ritter said that while artificial intelligence is about getting computers to think like humans, machine learning is about having pre-programmed devices.

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Idaho National Lab's digital engineering team relies on algorithms and auditable data

Artificial neural networks (ANNs) have existed in computational neurobiology ... nonlinear tasks. “Deep learning algorithms are being used widely today for different tasks — image recognition, ...

Deep Neural Networks: Understanding the Tech Behind AI

Though this project uses an RC helicopter, it's merely a vessel to demonstrate a fascinating machine learning algorithm developed ... We've seen neural networks before, but nothing like ...

Self-Learning Helicopter Uses Neural Network

General Motors is set to tap an artificial intelligence software system from Oak Ridge National Laboratory for its driver

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assistance systems technology and future-facing automotive designs. The ...

General Motors Licenses Neural Network Tech from National Lab

4.2 Artificial Neural Networks Artificial neural networks (NNs ... fault tree tables (FTTs), frequency analyzer, machine learning algorithms such as Support Vector Machine (SVM) and Neural Networks ...

Wind Turbine Fault Detection Using Machine Learning And Neural Networks

And thanks to advances in deep learning algorithms and ... machine learning, and artificial intelligence literature, we often see claims that 'neural networks are not safe for robotics because ...

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Adversarial training reduces safety of neural networks in robots: Research

A team of scientists found a surprising similarity between how human brains and artificial neural networks perceive ... work before they saw it in the algorithm AlexNet. "I was surprised to ...

Scientists Discover Surprising Similarity Between Neural Networks and Human Brain

In the past years, feature selection techniques have been proposed to make the possible for classification using neural network, supervised Learning ... train the proposed algorithm and this ...

Efficient Face Recognition Technique Using PCA in Neural Network

A new artificial intelligence (AI) ... It then processes these images

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using deep convolutional neural networks (DCNNs) in a timely and effective manner to identify and screen for early-stage ...

Using deep learning algorithm to spot skin cancer

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