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Neural Networks For Electronics Hobbyists

Replacing digital with analog circuits and photonics can improve performance and power, but it's not that simple.

Developers Turn To Analog For Neural Nets

Training neural networks to perform tasks, such as recognizing images or navigating self-driving cars, could one day require less computing power and hardware thanks to a new artificial neuron device ...

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New Artificial Neuron Device Runs Neural Network Computations Using 100 to 1000 Times Less Energy

SMART researchers created a synthetic framework known as theory-based residual neural network, which combines discrete choice models and deep neural networks, to improve individual decision-making ...

SMART breakthrough uses artificial neural networks to enhance travel behavior research

However, whenever signal processing becomes too comprehensive, silicon technology must be used for the high-performance computing unit. At the same time, designing everything in flexible or printed ...

Realization and training of an inverter-based printed neuromorphic computing system

The "neuromorphic supercomputer" the research describes could not only match,

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but surpass the physical limits of biological systems.

Advancing AI With a Supercomputer: A Blueprint for an Optoelectronic 'Brain'

In nature, herbal fragrances attract insects, for example. But they are also used in industry, for example in the manufacture of perfumes and flavors. In order to differentiate between the fragrances ...

Karlsruher Institute for Technology: Electronic nose distinguishes mint scents

Non-line-of-sight imaging allows reconstruction and recognition of an obscured object, but external manipulation of the data can lead to inaccurate results. Here, the accuracy and robustness of ...

Accurate but fragile passive non-line-of-sight recognition

Sensor data from smartphones and

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wearables can meaningfully predict an individual's 'biological age' and resilience to stress, according to Gero AI. The 'longevity' startup — which condenses its ...

Longevity startup Gero AI has a mobile API for quantifying health changes

A startup based out of Belfast, Northern Ireland, developed a low cost and hands-free technology that enables dairy operators to monitor their cattle.

Electronic eye keeps watch for lame cattle

Deep neural networks applications are widespread in several industries, including BFSI, IT & Telecommunication, Electronics & Semiconductors, Aerospace & Defense, Healthcare & Biotechnology ...

Deep Neural Networks Market Technology, Product Scope, Demand, Business Scenario, Trends,

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Share, Applications, Types and Forecasts 2020 - 2027

Centric Engineering projects offered by supervisors within the School of Electronic Engineering & Computer Science. This is not an exhaustive list. If you ...

Electronic Engineering & Computer Science

a motif-centric learning framework is created by combining motif information with the atom-based graph neural networks to form an atom-motif dual graph network (AMDNet), which is more accurate in ...

Structure motif-centric learning framework for inorganic crystalline systems

The "Neuromorphic Chip Market - Growth, Trends, COVID-19 Impact, and Forecasts (2021 - 2026)" report has been added ...

Worldwide Neuromorphic Chip

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Industry to 2026 - North America to Hold Major Market Share

and his German colleagues have developed a neural network-based classification algorithm that can use data from an apple orchard to predict how well apples will fare in long-term storage. The paper ...

Neural Network Uses Orchard Data to Predict Fruit Quality

He is known for his pioneering work on Artificial Neural Networks (ANNs ... tracks and consults for companies throughout the electronics ecosystem from semiconductors to systems and sensors ...

Nvidia GPU Technology Conference Brings Out The AI All Stars

Heart disease can take a number of forms, but some types of heart disease, such as asymptomatic low ejection fraction, can be hard to recognize, especially in the early stages when treatment would be ...

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Trial demonstrates early AI-guided detection of heart disease in routine practice

and specifically 3D printed electronics, and DeepCube's training and inference frameworks stood out, along with the team's expansive knowledge of deep learning and neural networks," said Yoav Stern, ...

DeepCube Acquired by Nano Dimension to Drive Industry 4.0 Evolution

Junior researcher prize goes to Felix Joos in theoretical computer science As an internationally renowned expert in the field of brain research, Heidelberg neurobiologist Prof. Dr Hannah Monyer is ...

Lautenschläger Research Prize for Neurobiologist Hannah Monyer - Public invitation to virtual prize-giving ceremony

In this research paper, Theory-based

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residual neural networks: A synergy of discrete ... and Low Energy Electronic Systems (LEES). SMART research is funded by the National Research Foundation ...

SMART breakthrough to enhance travel behavior research with artificial neural networks

and specifically 3D printed electronics, and DeepCube's training and inference frameworks stood out, along with the team's expansive knowledge of deep learning and neural networks," said ...

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