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A distinct neural network, including the nucleus accumbens as a central hub, is active when rats are exposed to trapped ingroup members they had previously helped escape a trap, but not for outgroup ...

Neural correlates of ingroup bias for prosociality in rats

Despite advances in deep neural networks, computers still struggle with the very human skill of "imagination." Now, a USC research team has developed an AI that uses human-like capabilities to ...

Enabling the 'imagination' of artificial intelligence

While our brain performs 1<sup>17</sup> power calculations per second, today's supercomputers will be able to handle 10<sup>17</sup> power calculations per second. Does this mean that supercomputers already can simulate ...

Why the digital brain will prevail over the analog brain

Human activities, such as burning fossil fuels for transportation and electricity, have worsened the intensity of extreme rainfall and snowfall over land in recent decades, not just in a few areas but ...

Global evidence links rise in extreme precipitation to human-driven climate change

Melanie Mitchell has worked on digital minds for decades. She says they'll never truly be like ours until they can make analogies.

The Computer Scientist Training AI to Think With Analogies

At the time, Apple said it was developing a family of chips ... According to the latest speculation, Apple will be following a similar cadence to the A-series chips in the iPhone and iPad but with ...

M1X, M2, M2X chips: How fast will the next Pro Macs be?

A team of researchers at USC is helping AI imagine the unseen, a technique that could also lead to fairer AI, new medicines and increased autonomous vehicle safety.

Enabling AI To Use Its "Imagination"

An artificial neural network (ANN) is a series of computer ... which saves time and costs. The corresponding experiments can be performed in silico. However, while a data infrastructure is ...

Recurrent Neural Networks Can Boost Upstream Processes

The chaotically moving objects dense clusters digital twin is being developed by students from NUST MISIS, ITMO and MIPT to navigate robots. It is going to be a web service using graph neural networks ...

Neural network to study crowd physics for training urban robots

The researchers used software developed via MATLAB and Simulink for operating the recording data ... neural network (RNN) to convert the participant's brain activity into a time series of ...

Psychology Today

Within NNSA, the Office of Defense Nuclear Nonproliferation Research and Development (DNN R&D) is spearheading collaborative efforts to drive advances in the science of artificial intelligence (AI), ...

NNSA leads national collaboration to drive next-generation in AI for nonproliferation

When AI/ML came onto the scene in the supercomputing community, common wisdom was that it could do much to augment HPC applications but it would be not be ...

AI/ML Cuts into Traditional HPC, Plasma Physics

Nguyen, Cecile Viboud, Mauricio Santillana Download Supplement This PDF file includes: Evaluation of models by correlation Additional time series of model predictions Additional heatmaps of feature ...

Science Advances

A team of researchers has submitted the system to the Cough Sound Track of the Diagnosing COVID-19 using Acoustics (DiCOVA) Challenge. The covid-19 crisis has tested healthcare systems throughout the ...

Detection of COVID-19 via Automatic Artificial Intelligence Cough Analysis

Even modeling these systems computationally is expensive and time-consuming ... Test Series. In the 1D solidification case, they input data from experiments into their neural network.

Using AI to predict 3D printing processes

For the time that ... of training neural nets, borrows its methodology from Darwin's theory of evolution. But perhaps human beings are not simply a sum of objective functions, a series of ...

Embracing the whole you: You are more than your job

Join AI & data ... series of "fully connected" layers of artificial neurons that map the features to the kind of output expected from the network. The most basic task for convolutional neural ...

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