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Advanced Computational Methods In Structural

Accurate protein structure prediction now accessible to all. Scientists have waited months for access to highly accurate protein structure prediction since DeepMind presented remarkable progress in ...

Advanced New Artificial Intelligence Software Can Compute Protein Structures in 10 Minutes

The discovery of protein structures could be the biggest contribution of AI in the field of life sciences, that could accelerate drug discovery.

Google's AI solves 50-year-old protein problem, discovers 3D structures of elusive building blocks of life

The prediction of protein structures from amino acid sequence information alone, known as the "protein folding problem," has been an important open research question for more than 50 years. In the ...

DeepMind's AlphaFold2 Predicts Protein Structures with Atomic-Level Accuracy

DeepMind is partnering with EMBL to make the most complete and accurate database yet of the predicted human protein structures freely and openly available to the scientific community The AlphaFold ...

DeepMind and EMBL release the most complete database of predicted 3D structures of human proteins

Scientists have dreamed of simply predicting a protein's shape from its amino acid sequence—an ability that would open a world of insights into the workings of life. "This problem has been around for ...

Researchers unveil 'phenomenal' new AI for predicting protein structures

A collaboration across three continents at the frontiers of physics, biology, and engineering co-led by Maurizio Porfiri at NYU Tandon, applied super computing muscle and special software to a novel ...

How a unique sponge 'goes with the flow' could improve man-made structures

The many benefits offered by AI technology are driving its demand in institutes and organizations. Increased government spending on upgrading the education sector should encourage the adoption of ...

Top Trends Driving AI in Education

Control Engineering - Scientists at the Department of Energy's Oak Ridge National Laboratory and the University of Tennessee, Knoxville, have found a way to simultaneously ...

Structural alloys strengthened with precipitates

Data structures are mostly used to modify, navigate and access information. They are critical in building real-life applications.

Python Data Structures That Every Beginner Should Know About

The software compares gene expression in cells derived from organoids with a reference atlas of the developing mouse brain.

New tool maps cell types in lab-grown blobs of brain tissue

A research team presents a new process that uses computational imaging to get high resolution images at a rate 100 to 1,000 times faster than other state-of-the-art technologies that use complex ...

New imaging technique may boost research in biology, neuroscience

A novel method of characterizing the structural and chemical evolution of silicon and a thin layer that governs battery stability may help resolve issues that prevent using silicon for high-capacity ...

Novel method of imaging silicon anode degradation may lead to better batteries

A team of scientists has developed a means to create a new type of memory, marking a notable breakthrough in the increasingly sophisticated field of artificial intelligence.

A new information storage and processing device

ABSTRACT Although the world is witness to the tremendous successes of Artificial Intelligence (AI) technologies in some domains, many domains have yet to reap the benefits of AI d ...

AI Institute for Intelligent Cyberinfrastructure with Computational Learning in the Environment (ICICLE)

Computers have been able to quickly process 2D images for some time. Your cell phone can snap digital photographs and manipulate them in a number of ways. Much more difficult, however, ...

3D updates: Deep Learning Techniques Help Visualize X-Ray Data in Three Dimensions

While past research has investigated the structure of the sponge, there have been few studies of the hydrodynamic fields surrounding and penetrating the organism, and whether, besides improving its ...

Novel research revealing how a unique sponge goes with the flow could improve man-made structures

Giatec®, world leader in concrete testing technologies, believes its ICOR® corrosion detection device can help save lives by preventing building collapses resulting from rebar and concrete structural ...