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Computational Methods for Physics

From biochemical reactions that produce cancers, to the latest memes virally spreading across social media, simple actions can generate complex behaviors. For researchers trying to understand these ...

From genes to memes: Algorithm may help scientists demystify complex networks

The course aims to provide an overview of the main and common computational methods currently used in physics research. The course will cover the topics of basic concepts of computational physics, ...

PHYS.5630 Computational Methods in Physics

The Laboratories for Computational ... are applying this method to overcome limitations of traditional shock capturing methods in order to solve challenging problems in high explosive detonation ...

Computational Physics & Fluid Dynamics

Scientists hunting for elusive gravitational waves across the universe may be able to supercharge their discoveries with a new tool: artificial intelligence. Gravitational waves are ripples in ...

Can artificial intelligence help scientists spot gravitational waves?

When gravitational waves were first detected in 2015 by the advanced Laser Interferometer Gravitational-Wave Observatory (LIGO), they sent a ripple through the scientific community, as they confirmed ...

Scientists use artificial intelligence to detect gravitational waves

This trial tells us that, yes, we can restore words to someone who 's lost speech from paralysis. It 's the very beginning, but it definitely tells us that this is possible, " said Edward Chang, M.D., a ...

Neuroprosthesis Device Allows " Speech " for Those Who Have Lost Their Voice

WHOI joint program, is helping to design robots that can independently navigate to sites where they can take samples or measurements that will be most useful to environmental scientists.

Designing exploratory robots that collect data for marine scientists

According to the TIOBE Index for July 2021, Python is the third most popular programming language. Between the most popular C, and Python, the difference is only 0.67 percent. The report further adds ...

8 Free Python Courses For Data Scientists In 2021

For example, this method can also be utilized to alter the performance ... of Technology and Nanyang Technological University, where the Skoltech scientists focused on the computational and machine ...

Semiconductor Crystals Tweaked to Realize Superior Properties for Electronics

The production-scale framework indicates that AI models could be as sensitive as traditional template matching algorithms, but orders of magnitude faster.

Scientists develop AI model to detect gravitational waves

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

Meet the 11 new faculty members that have joined the Gerstner Sloan Kettering (GSK) Graduate School of Biomedical Sciences.

Eleven Scientists Join World-Renowned Faculty at Gerstner Sloan Kettering

physics and optimization. This course will give an introduction to modern techniques in the field, and how they relate to objects such as polytopes, permutations and hyperplane arrangements. An ...

Applied and Computational Mathematics

Researchers from Skoltech have found a way to help computer vision algorithms process satellite images of the Earth more accurately, even with minimal data for training. This will make various remote ...

Learning aids: Skoltech method helps train computer vision algorithms on limited data

Even though other research groups have applied computational methods to reposition medicines ... from the Department of Mathematics, Physics and Computing Sciences of the CEU UCH, and Jean Louis ...

New computational topology strategy to identify existing medicines for treating COVID-19

First published in 2007, this second edition describes the computational methods used in theoretical physics. New sections were added to cover finite element methods and lattice Boltzmann simulation, ...