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The tools and techniques of Artificial Intelligence (AI) are transforming discovery in the disciplines traditionally supported within the Directorate for Mathematical and Physical Sciences (MPS). This ...

Dear Colleague Letter: Advancing Discovery with AI-Powered Tools (ADAPT) in the Mathematical and Physical Sciences

This blog is the latest in the AI Leadership Brain Trust series which defines 50 key competencies required to build a world-class AI center of excellence in a large enterprise. This blog defines basic ...

Understanding AI And Machine Learning Concepts To Build Your AI Leadership Brain Trust.

Machine learning software advances could help anesthesiologists optimize drug dose, potentially improving patient outcomes.

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Algorithms show accuracy in gauging unconsciousness under general anesthesia

algorithms are what statisticians do, while inference says why they do them'. The book explains this 'why'; that is, it explains the purpose and progress of statistical research, through a close look ...

Algorithms, Evidence, and Data Science

Machine learning (ML) and deep learning (DL) can successfully predict high prevalence events in very large databases (big data), but the value of this methodology for risk prediction in smaller ...

Machine learning and deep learning to predict mortality in patients with spontaneous coronary artery dissection

Eight Democratic lawmakers have taken exception to the use of algorithms that automate policing decisions, raising their

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concerns with the U.S. Department of Justice this week. U.S. Reps. Yvette D.

Lawmakers seek to stop DOJ use of algorithms and 'dirty policing'

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Magnetoencephalography Factor Type(s) age group • sex Sample Characteristic - Organism Homo sapiens Machine-accessible metadata file describing the reported data: ...

A magnetoencephalography dataset for motor and cognitive imagery-based brain-computer interface

Emerging technologies such as artificial intelligence (AI) algorithms, mobile robots and unmanned aerial vehicles

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(UAVs) could enhance practices in a variety of fields, including cinematography. In ...

CineMPC: An algorithm to enable autonomous drone-based cinematography

Some believe Big Data and artificial intelligence will revolutionize society, while others fear job losses and algorithmic bias. What should we make of these seemingly conflicting claims?

Big Data and algorithmic intelligence: Should policymakers be worried?

A new algorithm ... Intelligence (AI) methods that the researchers were able to track down the hidden genes. "The interactions of proteins and genes can be mapped as a mathematical network ...

New algorithm can predict which genes cause cancer

Theory and algorithms for problems in

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data science with an emphasis on mathematical aspects ... We program and test our methods in Matlab - almost no prior knowledge is assumed. Discrete optimization ...

Graduate Courses

3 Mathematical Sciences, Claremont McKenna College ... These results reveal a fruitful interplay between algorithm design and active matter robotics that can result in principles for programming ...

Programming active cohesive granular matter with mechanically induced phase changes

Researchers from Belgium, the Netherlands, Russia, and Italy have developed a breakthrough method for quickly, accurately, and reliably diagnosing cardiac arrhythmias.

New breakthrough method for quickly, accurately diagnosing cardiac arrhythmias

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Next, we provide rigorous mathematical arguments and prove two theorems that render the search for a universally best ground truth recovery algorithm as fundamentally flawed. We then present two novel ...

The ground truth about metadata and community detection in networks

In developing their algorithm, the researchers aimed for ... This would be far more flexible than existing sensor-based methods, but would first require the team to apply several different ...

Ships can monitor and predict ocean waves using new algorithm

Researchers have developed a breakthrough method for quickly, accurately, and reliably diagnosing cardiac arrhythmias. It coped with the task in 38 cases out of 51. In other words, it is highly ...

Scientists created technology to

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detect and treat complex arrhythmias

By Rob Farber on behalf of the Exascale Computing Project First developed in 1998, the hypre team has adapted their cross-platform high performance library to support a variety of machine ...

New Hypre Library Approach Brings GPU-Based Algebraic Multigrid to Exascale and HPC Community

"The proposed algorithm is based on the unscented Kalman filter and recursive least-squares mathematical techniques ... of the state-of-the-art estimation methods," he added.

IIT Mandi researchers develop algorithms to predict functioning of IC engine of vehicles

and is co-chair of the Copper Mountain Conference on Multigrid Methods. He also has mentored more than 30 students and postdocs and served on eight Ph.D. committees. "Rob's work on mathematics, ...

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