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Solving Computationally Expensive Engineering Problems

Tomographic 3D printing is a revolutionary technology that uses light to create three-dimensional objects. A projector beams light at a rotating vial containing photocurable resin, and within seconds

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Engineering student helps federal experts solve a messy 3D printing problem

Computer scientists often encounter problems relevant to real-life scenarios ... This can make the computations prohibitively expensive even for a modest number of agents," explains Prof.

New algorithm makes it easier for computers to solve decision making problems

Arnold thinks the machine could help eliminate a cog in Michigan's bottle recycling. "This unloads the burden from (retailers) and from the distributors who have to pick up (containers) from the store ...

To solve a very Michigan problem, this inventor created an in-home bottle counter

Well, an increase in data lakes equals an increase in public cloud consumption — which leads to a soaring amount of notifications, alerts and security events. Around 56% of enterprise organizations ...

Solving the security challenges of public cloud

The advance could accelerate engineers' design process by eliminating the need to solve complex equations. Isaac Newton may have met his match. For centuries, engineers have relied on physical laws — ...

Isaac Newton May Have Met His Match: New AI Tool Calculates Materials' Stress and Strain Based on Photos

Elizabeth Carretto discusses observability at Netflix and where and how their internal tool, Edgar, comes into play.

Solving Mysteries Faster with Observability

We also focus on problems that are difficult or impossible to solve with existing desktop

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technologies. That usually leads us to very large problems in the high-tech space.” OnScale’s solvers were ...

The Cloud Lets Engineers Access Powerful Multiphysics Solvers

Bitcoin mining is now estimated to gobble up more electricity than many entire countries. Since 2019, when the University of Cambridge’s Centre for Alternative Finance placed the cryptocurrency’s ...

How Bitcoin gave a shuttered coal plant a second life

The advance could accelerate engineers' design process by eliminating the need to solve complex equations ... "But it's still a tough problem. It's very expensive -- it can take days, weeks ...

New AI tool calculates materials' stress and strain based on photos

Founder and CTO of Algolia, highlights that when it comes to applying AI to search, many organizations find the task challenging (one reason: there is no one, standard way to implement AI, no single ...

Removing Roadblocks: A Closer Look at the Three Biggest Barriers to Relevant, Personalized AI-Powered Search

Scientists have developed a stable, anode-free sodium ion battery that is highly efficient, will be less expensive and is significantly smaller than a traditional lithium ion battery.

Stable, efficient, anode-free sodium battery

Emily Hamilton explains how zoning reforms can make it easier to build housing, increase opportunity for individuals, and boost economic growth nationwide.

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How policymakers can improve housing affordability: My long-read Q&A with Emily Hamilton

Has the past year convinced you that your family doesn't need multiple vehicles? Could you be persuaded to give up all of your cars? We may not be there yet as a society, but Jesse Levinson wants ...

Zoox CTO on the Amazon acquisition, and the environmental promise of self-driving taxis

Sharing his insights with Times Evoke, he discusses powerful mitigations for India's water crisis: My research focuses primarily on understanding global water sustainability. That covers ...

'Changing India's agricultural patterns can solve water challenges'

But for most, this regular and necessary examination requirement can mean undertaking a lengthy and expensive ... in engineering examinations had just been opened up. But before engineers run towards ...

Brave new dawn the world of engineering with the advent of drone technology

The cost of engineering, manufacturing ... Just like other emerging technologies, solid-state batteries are expensive, which is due partly to development costs, but is also heavily related ...

What You Need to Know About Solid-State Batteries

(This is generally seen as prohibitively expensive.) Another option is to ... "You'll never solve a problem with just smart infrastructure." It was a municipal-scale internet of things project.

One city's fight to solve its sewage problem with sensors

The Washington University in St. Louis lab of Peng Bai, assistant professor in the Department of

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Energy, Environmental & Chemical Engineering in the McKelvey School of Engineering, has developed a ...

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