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~~For the past three years, engineers at the University of Pennsylvania's School ... James Pikul, assistant professor in the Department of Mechanical Engineering and Applied Mechanics, and Zhimin Jiang, ...~~

"Metallic" wood is as strong as titanium, reflects light

Applications of machine learning and other forms of artificial intelligence have been recognized in robotics and analytics. Now the technology is adding some spice to basic control applications.

When Artificial Intelligence Comes to Control

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Growing 'metallic wood' to new heights

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Deployable structures—objects that transition from a compact state to an expanded one—are used everywhere from backyards to Mars. But as anyone who has ever struggled to open an uncooperative folding ...

Kiriform structures harness buckling for stable, deployable structures

What do mechanical engineers do? The essence of engineering is problem solving ... and requires gathering and analyzing temperature data and distributions. Fluid mechanics, which also has a variety of ...

What Is Mechanical Engineering?

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Growing “Metallic Wood” to New Heights: Radically Decreasing a Material’s Density Without Sacrificing Strength

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Team uses AI to predict 3D printing processes

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New Smart Cement Invented for Building More Durable Roads and Cities

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Nanotechnology Advanced Materials: Know Study, Career Options in Emerging Field

With its commitment to innovation that benefits San Antonio and beyond, researchers in the UTSA College of Engineering

and Integrated Design are studying a variety of challenges that could help ...

UTSA researchers renowned for expertise in civil and structural engineering

This prestigious prize, sponsored by the Journal of Fluid Mechanics, is awarded every 4 years at the International Congress of Theoretical and Applied Mechanics to recognise ... of the American ...

Batchelor Prize 2020

The team published their results in Computational Mechanics in January 2021. "This is the first time that neural networks have been applied to ... Zhu sees engineers in the future using neural ...

Using AI to predict 3D printing processes

According to his bio, Kumar has appointments in the Departments of Mechanical Engineering and Applied Mechanics ... the American Society of Mechanical Engineers and the Institute of Electrical ...

Prof. Vijay Kumar Reappointed Dean of Penn School of Engineering and Applied Science Dean

The interdisciplinary research team of designers and engineers used a combination ... the William and Ami Kuan Danoff Professor of Applied Mechanics at SEAS and senior author of the study.

Pop-up coffee table -- no assembly required

NASA's space shuttle took its last flight, but the Shuttle's controversies stretches far beyond that. Two years removed from the Columbia disaster, the June 2005 issue of Popular Mechanics ...

The Pros and Cons of NASA's Space Shuttle

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For the past three years, engineers at the University of Pennsylvania's School ... James Pikul, assistant professor in the Department of Mechanical Engineering and Applied Mechanics, and Zhimin Jiang, ...

Growing 'metallic wood' to new heights

Engineers are using physics ... their results in Computational Mechanics in January 2021. "This is the first time that neural networks have been applied to metal additive manufacturing process ...

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