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Advanced Computational Methods In Structural

Advanced Computational Vibroacoustics presents an advanced computational method for the prediction of sound and structural vibrations, in low- and medium-frequency ranges - complex structural ...

Reduced-Order Models and Uncertainty Quantification

A number of powerful FE packages (ABAQUS, COMSOL, FEniCS, ...) offer the possibility to solve complex problems (material/structural nonlinearities ... will cover on a different number of advanced ...

MECH_ENG 495: Advanced Computational Methods in Solid Mechanics

The remarkable structural properties of the Venus flower basket sponge (*E. aspergillum*) might seem fathoms removed from human-engineered structures. However, insights into how the organism's ...

Glass sponges reveal important properties for the design of ships, skyscrapers and planes of the future

Researchers created a simulation of a deep-sea sponge and how it responds to and influences the flow of water. The work revealed a profound connection between the sponge's structure and function, ...

Glass sponges have properties for the design of ships, planes and skyscrapers

Robots in construction are traditionally thought to be suitable for menial tasks - "dull, dirty and dangerous" - but these days architects are employing robotics and ever-more sophisticated software t ...

CCA robotics session spotlights 3D architectural fabrication

A collaboration across three continents at the frontiers of physics, biology, and engineering co-led by Maurizio Porfiri at NYU Tandon,

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applied super computing muscle and special software to a novel ...

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

Flawn Chair in the UTSA Department of Civil and Environmental Engineering, is an expert on structural engineering ... interests include computational modeling in civil engineering applications, ...

UTSA researchers renowned for expertise in civil and structural engineering

structural mechanics and finite element/difference/volume methodologies. In addition, there is an increasing need for understanding computational methods, including advanced modelling and simulation ...

(Virtual Event) Workshop on Computational Nuclear Science and Engineering

To identify locations of strong winds on structures, construction teams typically can wait up to six months to conduct proper wind tunnel testing. This analysis not only disrupts the project time ...

Harnessing Virtual Wind to Influence Architectural Design

it combines traditional techniques of master builders with advanced computational design ... the name 'striatus' reflects the structural logic and manufacturing process behind the project.

striatus is the first 3D-concrete-printed bridge built entirely without reinforcement

Researchers at the Tokyo Institute of Technology say they have developed a computational method based on large ... and the surrounding media. "The structural and energetic features of the ...

Supercomputer Predicts Cell-Membrane Permeability of Cyclic Peptides

8 Department of Computational Biology, Génopode ... and recent important contributions to our understanding of the structural and functional divergence as well as inheritance of their underlying ...

Large-scale whole-genome resequencing unravels the domestication history of Cannabis sativa

In the COVID era, computational biology is having ... necessitating more artificially intelligent methods of whittling down the options. Now, researchers from IRB Barcelona's Structural Bioinformatics ...

New Deep Learning Tool Predicts Bioactivity, Identifies Therapeutics

Phase Genomics has published the method ... as analysis of structural genomic variation and genome architecture. They offer a comprehensive portfolio of laboratory and computational services ...

Phase Genomics Releases Platform for Discovering New Viruses in Microbiome Samples

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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

The remarkable structural properties of the basket sponge (*E. aspergillum*) might seem fathoms removed from human-engineered structures. However, ...

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