

Ytical And Computational Methods Of Advanced Engineering Mathematics 1st Edition

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New project unites digital humanities, Black studies, and data and computation

The discovery of novel groups or categories within diseases, organisms and biological processes and their organization into hierarchical relationships are important and recurrent pursuits in biology ...

New computational technique, software identifies cell types within a tumor and its microenvironment

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TSUBAME supercomputer predicts cell-membrane permeability of cyclic peptides

There is a pressing need to develop new mathematical and computational techniques to assist in the analysis of this information, both to quantify future threats and to quantify the effectiveness of ...

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Digital and Computational Studies

There is an increasing need for undergraduate students in physics to have a core set of computational tools. Most problems in physics benefit from numerical methods, and many of them resist analytical ...

Computational Methods for Physics

BackgroundThe newly identified betacoronavirus SARS-CoV-2 is the causative pathogen of the coronavirus disease of 2019 (COVID-19) that killed more than 3.5 million people till now. The cytokine storm ...

A Computational Approach Identified Andrographolide as a Potential Drug for Suppressing COVID-19-Induced Cytokine Storm

Researchers from the UK recently compared the performance of 4 different random priming amplification methods to recover SARS-CoV-2 RNA. In method 1 (H-P), the reverse transcriptase (RT) step included ...

Researchers develop random priming amplification method for whole-genome sequencing of SARS-CoV-2 and H1N1

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Institute in Critical Quantitative, Computational, and Mixed Methods Training For Underrepresented Scholars

Scientists can now process months' worth of gravitational wave data in minutes. When gravitational waves were first detected in 2015 by the advanced Laser Interferometer Gravitational-Wave Observatory ...

Scientists Use Artificial Intelligence to Detect Gravitational Waves - Orders of Magnitude Faster

A new study has been published in Science Advances that exploits proteomics datasets to develop an agnostic network for SARS-CoV-2-induced pathways, thereby unveiling novel targets and potential ...

Discovery of SARS-CoV-2-induced pathways uncovers groundbreaking drug repurposing strategies

In the not too distant future, an integrated multiscale analysis system for the design of a reliable ... The ability to do this will require new SBE&S methods that can be used to predict macroscale ...

Computational Multiresolution Mechanics of Solids and Structures

The team collects text, audiovisual and behavioral datasets; uses innovative computational techniques and empirical strategies for analysis; and generates original research. Data Labs also explores ...

Data Labs

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

Scientists at Weill Cornell Medicine have developed a computational technique ... between tip and sample. Using a method like super-resolution analysis, they were able to extract much higher ...

New super-resolution microscopy method approaches the atomic scale

The City of Dreams versus The City of Angels. I'm referring, of course, to the ongoing rivalry between New York City and Los Angeles. Hilarious "survey" videos and talk shows will give you one picture ...

New York City or Los Angeles? Where you live says a lot about what and when you tweet

Scientists have developed a computational method based on large-scale molecular dynamics simulations to predict the cell-membrane permeability of cyclic peptides using a supercomputer. Their protocol ...