

Applied Parallel Computing

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Doctoral student prepares to graduate, continue parallel computing research Apr 25, 2021 | Engineering and Science , General News , Research , Students When Computational Analysis and Modeling (CAM) student Wenjing Xu moved from Shanghai to Ruston to study at Louisiana Tech University, he was surprised to arrive in a small town that looked ...

[Doctoral student prepares to graduate, continue parallel ...](#)

AMATH 583 High-Performance Scientific Computing (5) Introduction to hardware, software, and programming for large-scale scientific computing. Overview of multicore, cluster, and supercomputer architectures; procedure and object oriented languages; parallel computing paradigms and languages; graphics and visualization of large data sets ...

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[APPLIED MATHEMATICS](#)

Artificial neural networks (ANNs), usually simply called neural networks (NNs), are computing systems vaguely inspired by the biological neural networks that constitute animal brains.. An ANN is based on a collection of connected units or nodes called artificial neurons, which loosely model the neurons in a biological brain. Each connection, like the synapses in a biological brain, can ...

[Artificial neural network - Wikipedia](#)

Grid computing has been applied to a number of large-scale embarrassingly parallel problems that require supercomputing performance scales. However, basic grid and cloud computing approaches that rely on volunteer

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computing cannot handle traditional supercomputing tasks such as fluid dynamic simulations.

[Supercomputer - Wikipedia](#)

General-purpose computing on graphics processing units (GPGPU, rarely GPGP) is the use of a graphics processing unit (GPU), which typically handles computation only for computer graphics, to perform computation in applications traditionally handled by the central processing unit (CPU). The use of multiple video cards in one computer, or large numbers of graphics chips, further parallelizes the ...

[General-purpose computing on graphics processing units ...](#)

SUNDIALS is a SUite of Nonlinear and

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Differential/ALgebraic equation Solvers.

It consists of the following six solvers:

CVODE, solves initial value problems for ordinary differential equation (ODE) systems; CVODES, solves ODE systems and includes sensitivity analysis capabilities (forward and adjoint); ARKODE, solves initial value ODE problems with additive Runge-Kutta methods, include support ...

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