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Parallel computing in bioinformatics: a view from high ...

Authors and Affiliations. 1. Bioinformatics and High Performance Computing Research Group (BIO-

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HPC), Computer Science Department Universidad Católica San Antonio de Murcia (UCAM)GuadalupeSpain. 2.Department of Computer Science, College of Information Science and TechnologyUniversity of Nebraska at OmahaUSA.

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Engineering High-performance Parallel Algorithms with ...

Introduction to High Performance Computing; Hands on with server hardware; Performance efficiency analysis; High performance scientific computing; Code and data management with version control and hands-on; Parallel programming; Programming for HPC; Introduction to resource demanding bioinformatics applications; Bioinformatics workflows; Parallel programming with R

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BINDSURF | Bioinformatics and High Performance Computing ...

The role of High Performance Computing in Bioinformatics 3. result, virtualization is being increasingly adopted in data centres. In particular, cloud computing is an inherently energy-ecient virtualization technique [7], in which services run remotely in a ubiquitous computing cloud that provides scal- able and virtualized resources.

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Bioinformatics: High Performance Parallel Computer ...

Bioinformatics: High Performance Parallel Computer Architectures (Embedded Multi-Core Systems) Bertil Schmidt New sequencing technologies have broken many experimental barriers to genome scale sequencing, leading to the extraction of huge quantities of sequence data.

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Applications of high performance computing in ...

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Abstract. Bioinformatics allows and encourages the application of many different parallel computing approaches. This special issue brings together high-quality state-of-the-art contributions about parallel computing in bioinformatics, from different points of view or perspectives, that is, from high-performance, heterogeneous, and cloud computing.

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Bioinformatics: High Performance Parallel Computer ...

High Performance Parallel Computer Architectures. Bioinformatics. DOI link for Bioinformatics. Bioinformatics book. High Performance Parallel Computer Architectures. Edited By Bertil Schmidt. ... Parallel Bioinformatics Algorithms for CUDA-Enabled GPUs . View abstract . chapter 7 | 18 pages

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Bioinformatics - an overview | ScienceDirect Topics

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Bioinformatics : High Performance Parallel Computer ...

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Pèrèz-Sànchez, H, Fassih, A, Cecilia, JM, Ali, HH & Cannataro, M 2015, Applications of high performance computing in bioinformatics, computational biology and computational chemistry. in F Ortuño & I Rojas (eds), Bioinformatics and Biomedical Engineering - 3rd International Conference, IWBBIO 2015, Proceedings.

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SciEngines GmbH - Wikipedia

A Ph.D. in Bioinformatics Data Science will train the next-generation of researchers and professionals who will play a key role in multi- and interdisciplinary teams, bridging life sciences and computational sciences. Students will receive training in experimental, computational and mathematical disciplines through their coursework and research.

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Applications of High Performance Computing in ...

Bioinformatics involves analyzing DNA sequences, analyzing RNA sequences, and analyzing protein sequence. SOAP and REST-based interfaces are developed for a wide variety of bioinformatics applications, allowing an application running on one computer in one part of the world to use algorithms, data,...

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Bioinformatics: High Performance Parallel Computer ...

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PhD in Bioinformatics Data Science - CBCB

Engineering High-performance Parallel Algorithms with Applications to Bioinformatics by Jesmin Jahan Tithi Doctor of Philosophy in Computer Science Stony Brook University 2015 Since the beginning of the last decade, plateauing of the clock speed of computer processors has forced us to invest more in parallelism | for both hardware and software ...

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Bioinformatics | High Performance Parallel Computer ...

A compilation of recent approaches from prominent researchers, Bioinformatics: High Performance Parallel Computer Architectures discusses how to take advantage of bioinformatics applications and algorithms on a variety of modern parallel architectures. Two factors continue to drive the increasing use of modern parallel computer architectures to address problems in computational biology and bioinformatics: high-throughput techniques for DNA sequencing and gene expression analysis—which ...

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The role of High Performance Computing in Bioinformatics

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## High Performance Computing in Bioinformatics

Our group has completely developed from scratch a computer program for performing VS called BINDSURF, last publication reported in: Sánchez-Linares, I., Pérez-Sánchez, H., Cecilia, J. M. & Garcia, J. M. High-Throughput parallel blind Virtual Screening using BINDSURF. BMC Bioinformatics 13, S13 (2012).

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