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Bioinformatics: High Performance Parallel Computer ...

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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).

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.

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

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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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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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