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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

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Bioinformatics could greatly benefit from increased computational resources delivered by High Performance Computing. However, the decision-making about which is the best

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architecture to deliver good performance for a set of Bioinformatics applications is a hard task. The traditional way is finding the architecture with a high theoretical peak of performance, obtained with benchmark tests.

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Abstract. In the last 10 years, we are witnessing one of the major revolutions in parallel systems. The consolidation of heterogeneous systems at different levels -from desktop computers to large-scale systems such as supercomputers, clusters

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or grids, through all kinds of low-power devices- is providing a computational power unimaginable just few years ago, trying to follow the wake of Moore ...

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many experimental barriers to genome scale sequencing, leading to the extraction of huge quantities of sequence data. This expansion of biological databases established the need for new ways to harness and apply the astounding amount of available genomic information and convert it into substantive biological

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computing tools can lead to significant breakthroughs in deciphering genomes, understanding genetic disease, designing customized drug therapies, and understanding evolution. A broad range of bioinformatics applications is covered with demonstrations on how each one can be parallelized to improve performance and

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gain faster rates of computation. Current parallel computing techniques and technologies are examined, including distributed computing and grid computing. Readers are provided with a mixture of algorithms, experiments, and simulations that provide not only qualitative but also quantitative insights

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into the dynamic field of bioinformatics. Parallel Computing for Bioinformatics and Computational Biology is a contributed work that serves as a repository of case studies, collectively demonstrating how parallel computing streamlines difficult problems in bioinformatics and produces better results. Each of the chapters is

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authored by an established expert in the field and carefully edited to ensure a consistent approach and high standard throughout the publication. The work is organized into five parts: * Algorithms and models * Sequence analysis and microarrays * Phylogenetics * Protein folding * Platforms and enabling

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students in the field of bioinformatics will
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computing can enable them to handle more
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Recent developments in computer science

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enable algorithms previously perceived as too time-consuming to now be efficiently used for applications in bioinformatics and life sciences. This work focuses on proteins and their structures, protein structure similarity searching at main representation levels and various techniques that can be used to accelerate

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similarity searches. Divided into four parts, the first part provides a formal model of 3D protein structures for functional genomics, comparative bioinformatics and molecular modeling. The second part focuses on the use of multithreading for efficient approximate searching on protein secondary structures.

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The third and fourth parts concentrate on finding 3D protein structure similarities with the support of GPUs and cloud computing. Parts three and four both describe the acceleration of different methods. The text will be of interest to researchers and software developers working in the field of structural

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bioinformatics and biomedical databases.

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Parallel Programming: Concepts and
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addition to covering general parallelism
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Computers an example-based teaching of
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High-Performance Computing using
FPGA covers the area of high performance
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High-Performance Reconfigurable Computing (HPRC). FPGAs offer very high I/O bandwidth and fine-grained, custom and flexible parallelism and with the ever-increasing computational needs coupled with the frequency/power wall, the increasing maturity and capabilities of FPGAs, and the advent of multicore

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processors which has caused the acceptance of parallel computational models. The Part on architectures will introduce different FPGA-based HPC platforms: attached co-processor HPRC architectures such as the CHREC's Novo-G and EPCC's Maxwell systems; tightly coupled HRPC architectures, e.g. the

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Convey hybrid-core computer;
reconfigurably networked HPRC
architectures, e.g. the QPACE system, and
standalone HPRC architectures such as
EPFL's CONFETTI system. The Part on
Tools will focus on high-level
programming approaches for HPRC, with
chapters on C-to-Gate tools (such as

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Impulse-C, AutoESL, Handel-C, MORA-
C++); Graphical tools (MATLAB-
Simulink, NI LabVIEW); Domain-specific
languages, languages for heterogeneous
computing(for example OpenCL,
Microsoft's Kiwi and Alchemy projects).
The part on Applications will present case
from several application domains where

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HPRC has been used successfully, such as
Bioinformatics and Computational
Biology; Financial Computing; Stencil
computations; Information retrieval;
Lattice QCD; Astrophysics simulations;
Weather and climate modeling.

Encyclopedia of Bioinformatics and

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Computational Biology: ABC of
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computer science, information technology,
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focus on Integrative –omics and Systems
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guidance for commonly asked questions.

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applications Includes interactive images,
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further resources and databases**

This book constitutes the thoroughly
refereed postproceedings of the First
International Life Science Grid Workshop,

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LSGRID 2004, held in Kanazawa, Japan in May/ June 2004. The 10 revised full papers and 5 invited papers presented were carefully selected and went through two rounds of reviewing and revision. Among the topics addressed are grid environment for bioinformatics, grid architectures, database federation, proteome annotation,

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grid workflow software, functional
genome annotation, protein classification,
tree inference, parallel computing, high
performance computing, grid
infrastructures, functional genomics, and
evolutionary algorithms.

"This book provides insight into the

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current trends and emerging issues by investigating grid and cloud evolution, workflow management, and the impact new computing systems have on the education fields as well as the industries"--Provided by publisher.

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post-conference proceedings of the
workshops of the 18th International
Conference on Parallel Computing, Euro-
Par 2012, held in Rhodes Islands, Greece,
in August 2012. The papers of these 10
workshops BDMC, CGWS, HeteroPar,
HiBB, OMHI, Paraphrase, PROPER,
UCHPC, VHPC focus on promotion and

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advancement of all aspects of parallel and
distributed computing.

This book constitutes thoroughly refereed
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workshops of the 19th International
Conference on Parallel Computing, Euro-
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August 2013. The 99 papers presented were carefully reviewed and selected from 145 submissions. The papers include seven workshops that have been co-located with Euro-Par in the previous years: - Big Data Cloud (Second Workshop on Big Data Management in Clouds) - Hetero Par (11th Workshop on

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Algorithms, Models and Tools for Parallel
Computing on Heterogeneous Platforms) -
HiBB (Fourth Workshop on High
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Interconnects) - PROPER (Sixth
Workshop on Productivity and

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Performance) - Resilience (Sixth
Workshop on Resiliency in High
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Clouds, and Grids) - UCHPC (Sixth
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newcomers: - DIHC (First Workshop on
Dependability and Interoperability in

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Heterogeneous Clouds) - Fed ICI (First
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HPC and Big Data Systems) -PADABS (
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