Call For Papers

Second International Workshop On High Performance Computational Biology

International Parallel and Distributed Processing Symposium

April 22, 2003
Nice Acropolis Convention Center, Nice, France

Computational Biology is fast emerging as an important discipline for academic research and industrial application. The large size of biological data sets, inherent complexity of biological problems and the ability to deal with error-prone data all result in large run-time and memory requirements. The goal of this workshop is to provide a forum for discussion of latest research in developing high-performance computing solutions to problems arising from molecular biology. We are especially interested in parallel algorithms, memory- efficient algorithms, large scale data mining techniques, and design of high-performance software. The workshop will feature contributed papers as well as invited talks from reputed researchers in the field. Topics of interest include but are not limited to:

- Bioinformatic databases
- Computational genomics
- Computational proteomics
- DNA assembly, clustering and mapping
- Gene expression and microarrays
- Gene identification and annotation
- Parallel algorithms for biological analysis
- Parallel architectures for biological applications
- Molecular evolution
- Molecular sequence analysis
- Phylogeny reconstruction algorithms
- Protein structure
- String data structures and algorithms

Submission Guidelines:

Papers reporting on original research (both theoretical and experimental) in all areas of bioinformatics and computational biology are sought. Surveys of important recent results and directions are also welcome. To submit a paper, send a postscript copy of the paper by email to one of the workshop co-chairs. The paper should not exceed 12 single-spaced pages (US Letter or A4 size) in 11pt font or larger. All papers will be reviewed. IEEE CS Press will publish the IPDPS symposium and workshop abstracts as a printed volume. The complete symposium and workshop proceedings will also be published by IEEE CS Press as a CD-ROM disk.

Important Dates:

Workshop paper due	November 29, 2002
Author Notification	December 31, 2002
Camera-ready Paper Due	January 24, 2003

Workshop Co-Chairs:

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