Parallel Bio–Computing 2007

Workshop on Parallel Computational Biology, Gdansk, Poland
September 9–12, 2007

Bioinformatics is the science of managing, mining, and interpreting information from biological sequences and structures. This is an exciting and emerging topic that requires solving hard computational problems and handling large volumes of data. Many new challenges in the life sciences require high performance computing.

The goal of this Workshop is to present the latest research in high–performance computing applied to bioinformatics. We are especially interested in parallel and distributed algorithms, memory efficient algorithms, and design of high–performance software for clusters, massively parallel systems and grids. Topics of interest include but are not limited to:

- Bioinformatic databases
- Computational genomics and proteomics
- DNA assembly, clustering, and mapping
- Gene expression and microarrays
- Gene identification and annotation
- Molecular sequence analysis
- Phylogeny reconstruction algorithms
- Protein structure prediction and modelling
- Parallel algorithms for biological analysis
- Parallel architectures for biological applications
- System tools that support large scale high–performance bio–computing

The PBC Workshop will be held in conjunction with the Seventh International Conference on Parallel Processing and Applied Mathematics PPAM 2007, Gdansk, Poland, September 9–12, 2007 (http://ppam.pcz.pl).

Please visit the official PBC web page: http://pbc.pcz.pl

PAPER SUBMISSION AND PUBLICATION

The workshop will consist of dedicated sessions containing selected papers. Papers will be refereed and accepted on the basis of their originality, scientific merit and relevance to the Workshop topics. Papers presented during Workshop will be included into the proceedings of PPAM and published after the conference by Springer–Verlag in the LNCS series.

The only allowed paper format is Springer LaTeX style. To ensure reasonable quality and consistency of preparation, please be sure to adhere closely to the LNCS Author and Volume Editor Instructions. All papers should be prepared as a PDF or PS file, and should be submitted using the Paper Submission link. Papers should not exceed 8 pages.

IMPORTANT DATES

Submission of Papers:	Sunday, April 29, 2007 (23:59 CET)
Notification of Acceptance:	Friday, June 15, 2007
Conference:	September 9–12, 2007
Camera–Ready Papers:	October 15, 2007

PROGRAMME COMMITTEE

David A. Bader, Georgia Tech., USA – *workshop chair*
Denis Trystram, ID–IMAG, France – *workshop chair*
Jaroslaw Zola, Iowa State. Univ., USA – *programme chair*
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