

HPC LIFE

Ouro Preto - October 17, 2006

<http://www.fisiocomp.ufjf.br/hpclife/>

WORKSHOP ON HIGH PERFORMANCE COMPUTING IN THE LIFE SCIENCES

Held in conjunction with the IEEE SBAC-PAD 2006- The 18th International Symposium on Computer Architecture and High Performance Computing
<http://www.sbc.org.br/sbac/2006>

Call For Papers:

Increasingly, the computer systems involved in the research of life sciences are based on large amount of data and on complex models, posing considerable requirements for computing power and storage resources. The HPCLife's goal is to facilitate exchange of ideas between computer scientists, mathematicians, biomedical engineers and life scientists that apply high performance computing in the context of computational biology and bioinformatics. The workshop will provide a forum for discussion of the latest research in developing high-performance computing solutions to problems found in modeling, analysis and exploration of all aspects of life sciences, ranging from effects on the molecular level to complex interactions networks. Contributions of interest will address topics related to the development, deployment, application and evaluation of distributed, high-performance and dedicated hardware technologies (FPGA, GPU) in the context of the following computational biology and bioinformatics areas: Analysis, modeling and simulation of processes, protein interactions, and whole systems; Large-scale (storage and computation) studies in computational biology and bioinformatics; Visualization and image processing of biological and biomedical data; Linkage and sequence analysis; Molecular dynamics; Protein folding and unfolding; Information retrieval and knowledge discovery including data mining.

Coordinators:

Rodrigo Weber dos Santos (UFJF, Brazil)
Alba Cristina M. A. de Melo (UNB, Brazil)

Scientific Committee:

Edward Vigmond (Univ. of Calgary, Canada)
Gernot Plank (Univ. of Graz, Austria)
Vicente Hernández (Univ. Politécnica Valencia, Spain)

Bruno Schulze (LNCC, Brazil)
Elson Toledo (LNCC, Brazil)
Helio Barbosa (LNCC, Brazil)
Helio dos Santos (UFJF, Brazil)
Laurent Dardenne (LNCC, Brazil)
Luis Paulo Barra (UFJF, Brazil)
Maria Emilia M. T. Walter (UNB, Brazil)
Mauricio Ayala-Rincon (UNB, Brazil)
Wagner Meira (UFMG, Brazil)
Wellington S. Martins (Univ. Católica de Goias, Brazil)

Paper Submission:

Both full papers (up to 8 pages) and short communications (up to 4 pages) are welcome. Submissions must be in PDF or Postscript format using the IEEE style.

Please check the following web site for paper submission information:
<http://www.fisiocomp.ufjf.br/hpclife>

Important Dates:

Papers Submissions Due: September 1st, 2006
•Author Notification: September 14th, 2006
•Camera-ready Paper Due: September 20th, 2006

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