Call for papers

New York University
Saturday, 6 Sept

MICCAI-Grid Workshop

Medical imaging on grids: achievements and perspectives

http://www.i3s.unice.fr/~johan/MICCAI-Grid

Medical image computing raises new challenges related to the scale and complexity of the required analysis, for example in studies that require the federation of large data sets or in complex models and processing. Grid technology is addressing problems related to large data sets manipulation over wide computing networks, providing tools for exchanging data and computing power and additionally serving as a vector for structuring the user communities as they enable cross-enterprises collaborations.

In the medical imaging area, grids provide a foundational layer that can be exploited *e.g.,* to build patient-specific models, reduce computing time to meet clinical practice constraints, algorithms validation and optimization, or collaborative studies on rare diseases. Specific grids initiatives are emerging worldwide, demonstrating a growing interest from the health community for such infrastructures and impacting the way to conduct medical research. However, deploying medical image analysis applications on grid infrastructures requires a proper understanding of the specific needs in this area.

The scientific objectives of the MICCAI-Grid workshop are both to demonstrate the current achievements of grid technologies within the medical imaging community and to precisely identify the fundamental problems limiting the adoption of existing systems and methods. The workshop also intends to stimulate the community to build new collaborations by taking advantage of the sharing capabilities of grids. The MICCAI-Grid workshop will be held on 6 September 2008, in conjunction with the MICCAI conference.

Program committee

Christian Barillot, CNRS / IRISA, FR
Ignacio Blanquer Espert, Univ Politecnica de Valencia, ES
Bob van Dijk, Free University, Amsterdam, NL
Stephan Erberich, Univ of Southern California, USA
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David Manset, Maat-G, FR
Richard McClatchey, Univ of West England, UK
Toshiharu Nakai, Nat Ctr Geriatrics and Gerontology, Aichi, JP
Xavier Pennec, INRIA Sophia Antipolis, FR
Daniel Rueckert, Imperial College, UK
Arthur Toga, Univ of California, Los Angeles, USA

Paper Submission

We kindly invite you to submit papers including the following topics:

- Medical image analysis application using grids
- Medical image pipelines and workflows
- Distributed and heterogeneous medical databases
- Medical data representation, structure and annotation
- Large scale and statistical studies
- Content-based retrieval and data mining
- Methods evaluation and parameter sweep studies
- Medical data visualization using grid resources
- Dedicated grid infrastructures
- Standards for exchanging data and algorithms
- Success stories and show stoppers

Please submit papers of up to **10 pages** until **May 9** following the format and instructions in
http://www.i3s.unice.fr/~johan/MICCAI-Grid

The workshop proceedings will be distributed in CD-ROM and published as a special issue of the Insight Journal.

Important dates

Deadline for submission	**May 9, 2008**
Acceptance notification	**June 20, 2008**
Camera ready	**July 18, 2008**
Workshop venue	**September 6, 2008**

Organizers

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Please note a related workshop to be held in conjunction with MICCAI 2008 called HP-MICCAI. Any papers related to parallel and multi-core algorithms should be submitted to that workshop (http://www.cse.buffalo.edu/hpmiccai/).