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Call for Papers

Scaling up life sciences with grids and clouds - stories and recommendations
(https://indico.egi.eu/indico/abstractDisplay.py?abstractId=58&confId=1417)
EGI Technical Forum 2013 (http://tf2013.egi.eu/)
September 16-20, 2013, Madrid, Spain

Important Dates and Deadlines:

- Electronic submission of abstracts: July 22th, 2013
- Notification of abstract acceptance/rejection: July 26th, 2013
- Workshop date: September 18th, 2013

Scope:

Grid and cloud computing are now a fundamental element in all analyses and experiments in Life Sciences. In this two-part workshop, a number of research case studies will focus on the practical applications that are underpinning their success and show how these are relevant for other areas of research within Life Sciences. A final discussion phase will aim to provide clear proposals for future EGI effort. Additionally, hands on demonstrations/training for accessing grid resources either selected from the case studies or from within the scope well known Life Sciences VOs will be provided to researchers, scientists and even software developers.

The current shift in research paradigm in Life Sciences has left many scientists struggling to keep up with techniques and technologies driven from notionally different domains, such as Physics or High Performance Computing. It is critical that there is as much exposure to these concepts and to address any shortcoming in the current state-of-the-art as soon as possible. Towards this end, the workshop's goal is to collect and integrate the advances of Life Sciences' community within a Grid context, and showcase the current achievements in order for the community and the peripherally involved scientists to have a clear groundwork on which to build the next generation tools and platforms.

The workshop has 2 goals:

-- Technical aspect of current approaches in Life Sciences in a grid context

-- Scientific background that merits the evolution of tools and techniques.

For the first part, focus is on showcasing novel techniques, methodologies and frameworks that address fundamental research issues in Life Sciences. Examples include specialized grid-enabled applications for ecosystems, clinical data inter-connectivity frameworks through SE or proof-of-concept methodologies for systems biology approaches. Through a series of flash presentations, this part will aim to cast a wider net within the Life Science communities' approaches in a Grid/Cloud context. This session will aim to pinpoint the advantages and drawbacks of the presented works, in order to identify the crucial areas for future effort.

Part 2 aims to present a solid overview of the current status of Life Sciences within a Grid environment. This will be the workshop; the tasks presented will represent the overall experience of an end-user, i.e. scientist or researcher, assessing and accessing the potential of a Grid infrastructure towards hers/his own work. Examples may include scientific gateways or portals, successful case studies and proof-of-principle approaches.

A final round-table brainstorming session will try to identify future aims and objectives in order to enhance and reinforce the interaction between Grid Computing and Life Sciences

Topics of interest

We encourage submissions on, but not limited to:
   - Life Science tools for Large Scale analysis
   - Portals for Life Sciences access to Grid resources
   - Life Sciences Use Cases on a Grid infrastructure
   - Cloud applications in Life Sciences

Application Instructions:

It is possible to participate in this session in two ways:

a) Presentation only. The submission should include:
 - Name and affiliation of the speaker
 - Title of presentation
 - One paragraph long abstract describing the presentation (can include references and/or figures).

This submission should ideally provide answers to the following questions:
1. What is the goal of the presented work?
2. How can/did a Grid/Cloud infrastructure improve the approach?
3. What are the main drawbacks in the current approach?

b) Presentation and demo.
Same as above, but with the inclusion of an additional paragraph describing the demo and its impact/interest to the Life Science community.

Submissions should be in English and can be submitted in PDF format and should be sent through email to the following addresses: fpsom@certh.gr / aduarte@itqb.unl.pt

Workshop Chairs:

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Program Committee:

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