

Table of Contents

Grid Observatory.....	1
Contact.....	1
Ongoing actions.....	1
Meetings.....	1
Resources.....	1
Slides.....	2
Publications.....	2

Grid Observatory

The portal is now open. Visit <http://www.grid-observatory.org>

All information about contact and usage are provided there.

The Grid Observatory cluster of Enabling Grids for E-science (EGEE) collects, publishes and analyses data on the behaviour of the EGEE grid. Its aim is to develop a scientific view of the dynamics of grid behaviour and usage. This helps both computer science researchers working in the field of autonomic computing and grid developers seeking to improve reliability, stability and performance.

Grid infrastructures, as well as data centers, consist of a variety of hardware and software components, which are, in their own right, complex systems. Grids federate independently managed resources, and answer the requests of communities with evolving behaviour patterns.

With extensive monitoring facilities already in place, EGEE grid offers an unprecedented opportunity to observe, and gain understanding of, new computing practices of e-Science.

Contact

Activity leader Cécile Germain-Renaud

Ongoing actions

- Data Collection and Publication
 - ◆ Integration of Dashboard data
 - ◆ Collection of LFC logs
 - ◆ Building ontologies (with MIS and LPC)
- Models of the grid dynamics
 - ◆ Evaluation of the performance of the estimated response time (request from JRA1)
 - ◆ Real-time clustering
 - ◆ Multi-objective scheduling
- Dissemination, collaborations
 - ◆ Workshop Grids meet autonomic Computing at ICAC'09
 - ◆ Proposal of a joint OGF/EGEE session "From monitoring to analysis" at OGF25/UF4

Meetings

Istanbul community meeting September 2008

London team meeting June 2008

CEI defense May 2008

Portal design May 2008

Analysis meeting November 2007

Budapest session October 2007

Budapest group meeting October 2007

Analysis kickoff meeting October 2007

Resources

Internal mailing list project-eu-egge-na4-go@cern

Collaboration mailing list gridobs@cru

The Grid Observatory infosheet

Poster at Digiteo 1st annual forum

Requirements from other EGEE activities [↗](#)

Workplan [↗](#)

Technical documentation [↗](#)

The Grid Ontology action [↗](#) (in French)

Slides

Presentation [↗](#) at the joint session *From grid monitoring to analysis* at OGF/UF Catania

Publications

Xiangliang Zhang, Michele Sebag, Cecile Germain-Renaud. Multi-scale grid monitoring with job stream mining. In CCGrid 2009 pdf [↗](#)

Germain-Renaud C., Perez J., Kegl B., Loomis C. Grid Differentiated Services: a Reinforcement Learning Approach In 8th IEEE International Symposium on Cluster Computing and the Grid (2008) pdf [↗](#)

Julien Perez , Cecile Germain-Renaud , Balazs Kegl , C. Loomis Utility-based Reinforcement Learning for Reactive Grids In The 5th IEEE International Conference on Autonomic Computing (2008) pdf [↗](#)

Xiangliang Zhang, Cyril Furtlehner, Michele Sebag Distributed and Incremental Clustering Based on Weighted Affinity Propagation In the fourth European Starting AI Researcher Symposium (STAIRS) (2008) pdf [↗](#)

Xiangliang Zhang, Cyril Furtlehner, Michele Sebag Frugal and Online Affinity Propagation In Conference francophone sur l'Apprentissage (CAP) (2008) inria-00287381, version 1 pdf [↗](#)

Xiangliang Zhang, Michele Sebag, Cecile Germain Le modelage des travaux d'un Systeme de Grille In 16th congr sefrancophone AFRIF-AFIA Reconnaissance des Formes et Intelligence Artificielle (RFIA) (2008) pdf [↗](#)

Xiangliang Zhang, Cyril Furtlehner, Michele Sebag Data Streaming with Affinity Propagation In European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (2008) pdf [↗](#)

-- CharlesLoomis - 22 Jul 2008

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