GGF11 Semantic Grid Applications Workshop

Call for Papers

Semantic Web technologies, such as the *Resource Description Framework* (RDF) for metadata representation, are increasingly being applied to Grid computing infrastructure and applications, facilitating interoperability and reuse of services, data and tools. The purpose of the *GGF Semantic Grid Research Group* (SEM-RG) is to help Grid users and developers realize this added value from Semantic Web technologies - see www.semanticgrid.org/GGF.

Following on from the successful *Semantic Grid Workshop* at GGF9, the GGF Semantic Grid Research Group is holding its second workshop at GGF11, which will be in Honolulu June 4-9, 2004. The theme of the workshop is *Semantic Grid Applications*, reflecting the GGF11 emphasis on *real* Grids, and the event is being organized in conjunction with the *Applications and Testbeds Working Group* (APPS-RG). The workshop will be a combination of invited presentations and refereed submissions, and is aimed at practitioners and would-be practitioners of Grid computing benefiting from Semantic Web tools and techniques.

We invite short and long papers describing *Grid computing projects that are making use of Semantic Web technologies and concepts*, whether this is within the Grid application or within the Grid computing environment. We are equally interested in papers that apply Semantic Web technologies to *data*, *services* (e.g. for description, discovery and composition), *environments* and *collaborative tools*, and we are interested in Grid applications from all disciplines, from e-Science to Arts and Humanities. Topics of interest include applications with the following features:

- Use of metadata (RDF and RDFS) to describe data and resources
- Metadata capture and semantic annotation
- Metadata management
- Metadata stores ("triplestores" and querying)
- Generation of URIs, exploiting the "network effect"
- Integration of heterogeneous data sources
- Interoperability achieved through Semantic Web technologies
- Tools for Semantic Grid
- Use of Semantic Web technologies to support virtual organizations
- Autonomic computing using Semantic Web technologies
- Use of Semantic Web Services (e.g. using OWL-S)
- Capturing and representing knowledge in PSEs
- Development, deployment and management of ontologies (e.g. in OWL)
- Integration using ontology mapping
- Use of advanced techniques, e.g. agent-based computing, inference, planning.

We also welcome *demonstrations* of Semantic Web technologies being applied to Grid computing, to be exhibited during a demos session at the workshop.

Important Dates

Paper and demo submission: April 26, 2004
Notification to authors: May 5, 2004
Final versions of papers: May 21, 2004

Workshop organizers

The workshop is being held by the GGF *Semantic Grid Research Group* (SEM-RG) in conjunction with the *Applications and Testbeds Working Group* (APPS-RG).

The Workshop Co-Chairs are:

David De Roure *Semantic Grid Research Group*
Geoffrey Fox   *Grid Computing Environments and Semantic Grid Research Groups*
Carole Goble   *Semantic Grid Research Group*
Simon J. Cox   *Applications Working Group*

The submissions chair is Danius Michaelides and the proceedings chair is Luc Moreau. For further information please see the www.semanticgrid.org/GGF web site or contact Danius Michaelides on dtm@ecs.soton.ac.uk.

Submissions

Papers should be typeset in 12pt single column format, for letter or A4 sized paper. Full papers should not exceed 10 pages; short papers (extended abstracts) may be up to 4 pages. Submission format for review is Word or PDF. Please submit papers to the submissions chair.

We also welcome *demonstrations*. To propose a demonstration, please submit a URL referring to a one page proposal which may include hyperlinks to more detail. Demonstrations may be live or pre-recorded.

We welcome early or outline submissions at any time from authors who would like feedback from the organizers prior to the paper and demo submission deadline. We will provide feedback as quickly as possible. Please submit outlines, and any queries about the workshop, to Danius Michaelides from GGF10 onwards.

The proceedings of the workshop will be published as a GGF Informational Document.

Program Committee

Mark Baker   *University of Portsmouth, UK*
Jim Blythe   *Information Sciences Institute, USC*
William Johnston *Lawrence Berkeley National Laboratory*
Kerstin Kleese   *CLRC Daresbury Laboratory, UK*
Libby Miller   *ILRT, University of Bristol, UK*
Jim Myers   *Pacific Northwest National Laboratory*
Marlon Pierce   *Indiana University*

Registration

The Workshop is open to anyone registered for GGF. Participants may also be able to register for the workshops only. Please see the main GGF web site www.ggf.org.

See www.semanticgrid.org/GGF