

International Workshop on Information Grid and Knowledge Grid (IGKG's2004)

At the 3rd International Conference on Grid and Cooperative Computing (GCC'2004)

Wuhan, China, 21-24 October 2004

<http://grid.hust.edu.cn/gcc2004/gcc2004.htm>

1. Call for Papers

Grid computing has emerged as an important new field, distinguished from conventional distributed computing by its focus on large-scale coordinated resource sharing. The old problem for Grid is lots of computing resources for sharing, and Grids for this problem are called computing grids.

The new problem for current grid research is the sharing of voluminous of information resources such as databases, workflow, programs, multimedia , etc. in such an open setting, and **Information Grid** is intended for addressing this problem.

The most significant new problem is that of extending our virtual information base into a knowledge base , and using knowledge representation, discovery, and inference techniques to address on how the data and information can be explicitly represented, well preprocessed, seamlessly interchanged, automatically discovered, and dynamically integrated, and **Knowledge Grid** is intended for this purpose.

The paradigm of Information Grid & Knowledge Grid complements the current approach of Semantic Web and Web Services by providing an infrastructure to handle large-scale inter-oriented multi-institutional information systems and knowledge-based systems.

We envision a prospective flourish of research on these areas, and the purpose of this workshop is to bring researchers and practitioners to identify and explore the issues, opportunities, and solutions for Information Grid and Knowledge Grid. Appropriate topics for papers include, but are not limited to, the following:

(1)Information Grid

- Database for Grid
- Workflow on Grids
- Multimedia Resources Sharing on Grids
- Text and Multimedia Content Analysis and Indexing
- Data Grid & Service Grid
- Privacy and security issues for information grid
- Grid Service, Web Service and their QoS
- Service Description, Discovery, Composition & Execution
- Conflicts, conflict resolution and negotiation in information grid
- Dynamic formation and management of virtual organizations in grid

(2) Knowledge Grid

- Theory, Model, Architecture & Application for Knowledge Grid
- Knowledge Representation for Web/Grids
- Large Scale Knowledge Sharing and Management on Grids
- Ontology for Grids

- Semantic Web & Web Intelligence
- Semantic Web Service
- Web Inference & Reasoning
- Semantic Query / Semantic Registration
- Knowledge Flow
- Knowledge Portals
- Knowledge-based Virtual Organization
- Killer Applications for Information Grid/ Knowledge Grid

2. Important Dates

14 May 2004	Submission Due
07 June 2004	Notification of Acceptance/Rejection
30 June 2004	Camera-Ready Paper Due

3. Submission and Publication

Manuscripts to be submitted to the workshop should not have been published or been under review for publication elsewhere. Manuscripts submitted should conform to Springer LNCS formatting. Please carefully follow the “Information for LNCS Authors” on <http://www.springeronline.com/sgw/cda/frontpage/0,10735,5-164-2-72376-0,00.html> particularly the “Default Author Instructions”, which, along with the various templates in Zip files (for instance, the Word Template), can be downloaded on the right-hand side. Manuscripts that are not in full length and not conforming to the LNCS format will not be processed.

Well-formatted full-length papers submitted to the workshop will be peer-reviewed by the workshop’s International Program Committee. Accepted papers will be published by the main conference in its proceedings with the LNCS Series (Pending).

Submissions should be in either a PDF/postscript file or a Microsoft Word doc file, and should be sent via e-mail to workshop secretary Huajun Chen <huajunsir@vip.sina.com or huajunsir@zju.edu.cn > with the acronym IGKG’2004 in the e-mail subject.

4. Workshop Chairs

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5. International Program Committee

Yanbo Han (Institute of Computing Technology, CAS, China)
Xiaofeng Meng (Renmin University of China)
Hai Zhuge (Institute of Computing Technology, CAS, China)
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