

Call for Papers

International Workshop on Grid Computing, Applications, and Technologies (GridCAT 2009)

<http://www.csie.thu.edu.tw/gridcat2009>

December 14-16, 2009, Kaohsiung, Taiwan

(in conjunction with the 10th International Symposium on Pervasive Systems,
Algorithms and Networks, I-SPAN 2009)

<http://ispan2009.comm.ccu.edu.tw/>

Recent advances in grid technologies provide the ability to aggregate geographically-distributed resources into a single integrated computing platform. A variety of heterogeneous distributed resources, such as clusters, PCs, workstations, data storage devices or specific scientific instruments, are utilized and shared in grid computing systems. Computational resources, storage, memory, and bandwidth are complemented with content-oriented input from databases and web services. An emerging research area for grid computing has seen a change from widely distributed resources sharing for data-intensive problems to service-oriented computation, collaboration, and virtual organization. Therefore, the discovery and integration of grid resources and services on Internet has become convenient and flexible in terms of the combination of grid computing and web services used in various grid applications. Therefore, this workshop intends to foster state-of-the-art research in the areas of Grid computing, Technologies, and Applications through a forum for novel results and solutions to solve various problems and challenges foreseen in the future. We encourage the submission of innovative and mature results in designing, analyzing, and developing grid technology, services, and applications. Areas of interest include, but are not limited to, the following topics:

- Grid and cluster integration
- Programming models, tools and environments
- e-Science and virtual instrumentation
- Grid application and deployment environments
- Theory and practice of grid services and applications
- Performance evaluation and modeling, measurement technology for grid hardware and middleware
- HPC applications on cluster/grid environments
- Grid Infrastructure: grid architecture, system, middleware, and toolkits
- Management: resource discovery and allocation, monitoring, scheduling, and meta-scheduling
- P2P technology: peer-to-peer techniques for grid computing
- Partitioning and load balancing technologies for grid
- Resource allocation and management in learning grid
- Internet-based computing models
- Architectures for grid computing
- Data grid management systems
- Resource management, reservation, scheduling, and load balancing
- Performance evaluation and modeling
- Web services and web security in grid computing
- Semantic grid and knowledge grid
- Service grid, service computing, web services and QoS
- Wireless networking and mobile, pervasive and ubiquitous computing

Paper Submission

Authors are invited to submit original papers: they must not substantially duplicate work that any of the authors have published elsewhere or have submitted in parallel to any other conferences that have

proceedings. Papers must be written in English and must be in standard [IEEE conference format](#) limited to a maximum of 6 pages. The proceedings of the workshop will be published by IEEE Computer Society Press and indexed by EI. Submitting a paper to the workshop means that if the paper is accepted, at least one author should attend the workshop to present the paper. For no-show authors, their papers will be removed from the digital library after the conference. All submissions will be handled electronically through GCA 2009 submission system at <http://grid.chu.edu.tw/GCA2009/>, and must be in PDF.

International Journal Publication: Special issue of Journal of Supercomputing

Selected best papers of the workshop will be further considered for a special issue of [Journal of Supercomputing](#) (Springer) on Grid Computing Technologies, and Applications planned for publication in 2010.

Important Dates

Submission Deadline: July 15, 2009

Authors Notification: Aug. 15, 2009

Final Manuscript Due: Sept. 1, 2009

Workshop: Dec. 14-16, 2009

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