Advance on Intelligent Grid and Cloud Computing

Motivation and Target Audience

Grid and cloud computing have been one of most popular research topics in recent year. They earn increasingly attention because they can connect various geographically distributed and heterogeneous resources and services into a single computing platform. Users can transparently access the resources/services without taking care about how many services the platform has and where the services will be located. Cloud computing can be seen as a natural next step from the grid-utility model. Some advanced technologies and issues are necessary to be investigated, such as platform, hybrid cloud architecture, service discovery and intelligent management, workflow, QoS issue, green issue, cost-model, and so on, to provide transparent, secure, and efficient service access behind the platform. In addition, a well-defined model and effective economics are useful for coordinating services/resources scattered world-wide. A variety of valuable achievements and implementation experiences will drive sustained development and success in the topic.

This special issue aims to foster state-of-the-art research in the area of grid and cloud computing and is expected to focus on all aspects of cloud technologies and to present novel results and solutions to solve the various

problems and challenges in grid and cloud platforms. The target audience of this special issue includes academics, researchers, engineers, professionals working on the relevant topics in design profession, manufacturing engineering, industrial engineering, computer science, information system, and the graduate students who wish to learn and spot potential research opportunities.

Subject Coverage

We encourage the submission of innovative and mature results in designing, analyzing, and developing advanced technology, services, and applications of grid and cloud computing. Areas of interest include, but are not limited to, the following topics:

- Middleware and tools of Grid/Cloud computing
- Programming and components models of Grid/Cloud Computing
- Platform and Applications of Grid/Cloud Computing
- Intelligent Management of Grid/Cloud
- Hybrid Cloud Architecture
- Workflow of Hybrid Cloud
- Green issue of Grid/Cloud Computing
- Mobile and Pervasive computing
- Cost-Model of Grid/Cloud Computing
- QoS Issue on Grid/Cloud Computing
- Security Issue on Grid/Cloud Computing
- Information/knowledge Cloud

Submission and Review Process

Submission of a manuscript to this special issue implies that no similar paper is already accepted or will be submitted to any other conference or journal. Paper submissions must conform to the format guidelines of Information Systems Frontiers available at

http://www.springer.com/business+%26+management/business+information+systems/journal/10796

Papers will be evaluated on their merits, relevance to industry, contribution to the grid/cloud computing field, suitability to the special issue, and overall quality.

Important Dates

- Submission of full papers: ~~15 Jan. 2011~~ 30 April 2011
- First decision notification: ~~15 March 2011~~ 30 June 2011
- Submission revised papers: ~~15 April 2011~~ 15 August 2011
- Final decision notification: ~~15 May 2011~~ 15 September 2011
- Estimated publication date: 2011 or 2012, subject to ISF schedule

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