

Call for Paper

The 1st International Workshop on Autonomic Management of Grid and Cloud Computing – AMGCC’13

**Co-located with the ACM Cloud and Autonomic Computing Conference (CAC 2013)
InterContinental Hotel, Miami, Florida, USA -- August 5, 2013**

AMGCC’13 (<http://htcaas.kisti.re.kr/index.php/AMGCC13>) is going to take place on August 5, 2013, in Miami, in conjunction with the ACM Cloud and Autonomic Computing Conference (CAC 2013) (<http://www.autonomic-conference.org/>).

Cloud computing provides cost-effective, fast, and unlimited virtualized resources in large-scale data centers through outsourcing. While providing public cloud services (infrastructure, platform, applications, etc.) over the Internet is the most popular type of cloud computing, many organizations and companies are also building private Cloud services within their own firewall to improve security and reduce the internal IT operation/management cost. On the other hand, Grid computing, as another type of utility computing that is able to provide a large number of computing resources across multiple organizations, can be utilized and seamlessly bridged on demand with Cloud resources as the scientists’ need arises. With such various types of compute/storage resources, scientific applications are able to harness appropriate resources on demand in order to improve the performance and reduce the cost at the same time.

To date, however, little research efforts have been conducted on managing hybrid (virtualized) computing resources especially in such a large unprecedented scale, both in industry and academia. To efficiently manage such a large scale federated hybrid computing infrastructures, it is inevitable to have the resources “autonomously” manage themselves and cooperate with each other. With this goal, this workshop focuses on the theory and practice of the autonomic resource management of hybrid utility computing infrastructures including public & private cloud and grid resources. We solicit original research works that discuss the challenges in the design, implementation, and evaluation of novel autonomous hybrid cloud resource management systems, and the theory and practice of cloud and grid resource management.

Topics of Interests

Topics include, but are not limited to, the following:

- + Autonomic Workflow and Resource Management in Cloud and Grid
- + Autonomous and Adaptive Management of Virtualized Resources
- + Security, Privacy, and Compliance Management for Hybrid Utility Computing
- + Performance Monitoring and Usage Metering in Hybrid Infrastructures
- + Autonomic Resource Discovery and Scheduling in Cloud and Grid
- + Service-based Autonomic Management in Cloud and Grid
- + Hybrid Cloud Resource Provisioning Orchestration
- + Adaptive Resource Provisioning and Adjustment in Grid and Cloud
- + Autonomics in High Performance Cloud Computing (HPC-Cloud)
- + Cloud/Grid Workload Profiling and Autonomic Deployment Control
- + Fault tolerance and Reliability in Hybrid Utility Computing
- + Federation, Bridging, and Bursting of Grid and Cloud Resources

Important Dates

- Paper submission: **April 30, 2013**
- Notification of acceptance: May 20, 2013
- Camera-ready paper: May 27, 2013
- Workshop: August 5, 2013

Paper Submission Guideline

An accepted paper must be registered and presented at the conference venue and must be limited to 8 pages in standard ACM camera-ready format (double-column, 10-pt font). The final 8 page papers in PDF format must be submitted online at paper submission site before the deadline of April 30th, 2013 at 11:59PM PST.

Extended Paper Journal Version

Selected papers presented at the AMGCC workshop will be invited to a special issue on the Springer Cluster Computing Journal, indexed by the SCIE, JCR, and SCOPUS rank (<http://link.springer.com/journal/10586>)

Workshop Co-Chairs

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