8th Workshop on Virtualization in High-Performance Cloud Computing (VHPC'13)

Topics of Interest

Topics of interest include, but are not limited to:

- Management, deployment and monitoring of VM-based environments
- VM-cloud performance monitoring
- VM cloud topology management and optimization
- Operating systems virtualization supportpptimization
- VM-based cloud performance modelling
- Network virtualization for VM-environments
- Data virtualization
- Cloudbursting
- Evolved grid architectures including such based on network virtualization
- Workload characterization for VM-based environments
- Optimized communication libraries/protocols in the cloud
- System and process/bytecode VM convergence
- Cloud frameworks and APIs
- GPU Virtualization architectures and APIs
- Checkpointing/migration of large compute jobs
- Instrumentation interfaces and languages
- VMM performance (auto-)tuning on various load types
- Cloud reliability, fault-tolerance, and security
- Heterogeneous virtualized environments
- Paravirtualized I/O
- Services in cloud HPC
- Research and education use cases
- Virtualization in cloud, cluster and grid environments
- Cross-layer VM optimizations
- Cloud HPC use cases including optimizations
- Energy-aware virtualization
- Performance and cost modelling
- QoS and and service levels
- Languages for describing highly-distributed compute jobs
- VM cloud and cluster distribution algorithms, load balancing
- Instrumentation interfaces and languages
- Hypervisor extensions and tools for cluster and grid computing
- Virtual machine monitor platforms
- Cluster provisioning in the cloud

Important dates

Rolling abstract submission

- Full paper submission: **Sept. 23rd**, 2013
- Acceptance notification: **Oct. 21st**, 2013
- Camera-ready version due: **Nov. 8th**, 2013
- Lightning talk abstracts: **Aug. 9th**, 2013
- Lightning talk notification: **Sep. 22nd**, 2013
- Workshop date: **Nov. 22nd**, 2013