ATHENS INFORMATION TECHNOLOGY
CENTER OF EXCELLENCE FOR RESEARCH AND GRADUATE EDUCATION
A NOT-FOR-PROFIT ORGANIZATION

GridNets 2009

ICST

Call for Papers

CREATE-NET

September 8-9, Athens, Greece
http://www.gridnets.org
Sponsored by ICST
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In Cooperation with ACM SIGARCH

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IMPORTANT DATES

Submission deadline: June 19, 2009
Acceptance notification: July 3, 2009
Camera Ready: July 19, 2009

Keynote speakers
TBA

Overview:

GridNets provides a focused and highly interactive forum where researchers and technologists have the opportunity to present and discuss leading research, developments, and future directions in the Grid networking area. The goal of this event is to serve as both the premier conference presenting best Grid Networking research and a forum where new concepts can be introduced and explored.

Grid developers and practitioners are increasingly realizing the importance of efficient network support. Entire classes of applications would greatly benefit by a network-aware grid middleware, able to effectively manage the network resource in terms of scheduling, access and use. Conversely, the peculiar requirements of grid applications provide stimulating drivers for new challenging research towards the development of grid-aware networks.

Cooperation between grid middleware and network infrastructure driven by a common control plane is a key factor to effectively empower the global grid platform for the execution of network-intensive applications, requiring massive data transfers, very fast and low-latency connections, and stable and guaranteed transmission rates. Large e-science projects, as well as industrial and engineering applications for data analysis, image processing, multimedia, or visualisation just to name a few are awaiting an efficient grid network support. They would be boosted by a global grid platform enabling end-to-end dynamic bandwidth allocation, broadband and low-latency access, interdomain access control, and other network performance monitoring capabilities.

All accepted papers will be published by Springer in the ICST Lecture Notes (LNICST) series. The proceedings will be published by Springer and will be available both as paper-based copies and via Springerlink, Springer's digital library.

Papers: Technical papers describing original, previously unpublished research, not currently under review by another conference or journal, are solicited. Technical papers clearly identifying how the specific contributions fit to an overall working solution are particularly of interest.

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

- Network architectures and technologies for grids;
- Integration of advanced optical networking technologies into the grid environment;
- The network as a first class grid resource: network resource information publication, brokering and co-scheduling with other resources;
- Interaction of the network with distributed data management systems;
- Network monitoring, traffic characterisation and performance analysis;
- Inter-layer interactions: optical layer with higher layer protocols, integration among layers;
- Experience with pre-production optical network infrastructures and exchange points;
- Peer-to-peer network enhancements applied to the grid;
- Network support for wireless and ad hoc grids;
- Data replication and multicasting strategies and novel data transport protocols;
- Cluster and high performance networks;
- Networks for Data Centers;
- Networks & Cloud computing issues;
- Fault-tolerance, self healing networks;
- Security and scalability issues when connecting a large number of sites within a virtual organization VPN;
- Cloud networking and Grid networking intersection;
- Grid networking and petascale computing;
- Grid networking for e-Science;
- Terabit Grid networking;
- Digital media and Grid networks;
- Energy awareness and power consumption in grids.

Submission Instructions: Conference language is English.
See http://gridnets.org/submission.shtml

Publication: All submitted papers and posters will be rigorously reviewed by the technical program committee members and the reviewers they invite
Accepted papers will be published in proceedings LN ICST by Springer.
At least one listed author on the final paper must register for and attend the workshop to present his/her paper.