



GridNets 2007



FIRST INTERNATIONAL CONFERENCE ON NETWORKS FOR GRID APPLICATIONS



<http://www.gridnets.org/2007>

Lyon, France, October 17-19, 2007

*Co-Sponsored by ICST, Create-Net and INRIA
In-technical cooperation with ACM SIGARCH*

CALL FOR PAPERS

The GridNets conference series is an annual international meeting which 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 objective 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.

The previous events in this series were: GridNets 2004 in San Jose (USA), GridNets 2005 in Boston (USA), GridNets 2006 in San Jose (USA). All of these events have been successful in attracting high quality papers and a wide international participation. From the first event through the fourth, we have been known as the GridNets Workshop affiliated with the IEEE BroadNets conference series. For this, our fifth event, we will convene our first meeting as a conference and in Europe. The proceedings will be published by ACM and will be available through ACM Digital Library (<http://portal.acm.org/>). Best papers will be considered for publication in a special section of Elsevier Future Generation Computer Systems (FGCS) - The International Journal of Grid Computing: Theory, Methods and Application.

Grid developers and practitioners are increasingly realising the importance of an 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. Big 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.

SCOPE

- Network architectures and technologies for grids
- Integration of advanced optical networking technologies into the grid environment
- End to end lightpath provisioning software systems and emergent standards
- The network as a first class grid resource: network resource information publication, brokering and co-scheduling with other Grid 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
- Fault-tolerance, self healing networks
- Security and scalability issues when connecting a large number of sites within a virtual organization VPN
- Simulations
- New concepts and requirements which may fundamentally reshape the evolution of Networks.

WORKSHOP

Proposals for workshops are solicited. Potential instructors are requested to submit a workshop proposal in ASCII or PDF format to the Workshops chair, Laurent Lefevre (laurent.lefevre at inria dot fr) by April 3, 2007

KEYNOTE SPEAKERS

- October 18 – Bill St Arnaud (Senior Director Advanced Networks for CANARIE Inc.)
- October 18 – Mike Fisher (BT Group Chief Technology Office)

IMPORTANT DATES

Workshop Proposal Deadline:	April 3, 2007, !!! CLOSED !!!
Paper Submission Deadline:	extended to May 28, 2007, Midnight CET
Paper Acceptance Notification:	extended to July 29, 2007
Final paper submission:	extended to Sept 17, 2007
Conference in Lyon:	October 17-19, 2007

(For submission instructions, refer to <http://www.gridnets.org/2007>)

ORGANIZING COMMITTEE

General co-chairs: Pascale Vicat-Blanc Primet (INRIA, ENS-Lyon), Michael Welzl (University of Innsbruck)

Local co-chairs: Pascale Vicat-Blanc Primet (INRIA, ENS-Lyon), Paulo Gonçalves (INRIA, ENS-Lyon)

Program Committee co-chairs: Peter Clarke (University of Edinburgh), David Hutchison (Lancaster University), Joe Mambretti (Northwestern University)

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Workshop chair: Laurent Lefèvre (INRIA, ENS-Lyon)

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Conference coordination and registration: Zita Rozsa (ICST)

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