



**1<sup>st</sup> International Workshop on**  
***“Data Processing and Storage Networking: Towards Grid Computing”***  
**(DPSN04)**

in the scope of

**“Networking 2004”**

3<sup>rd</sup> IFIP – TC6 Networking Conference  
(<http://www.ece.ntua.gr/networking2004/>)

**Date:** May 14<sup>th</sup>, 2004

**Venue:** “Park Hotel”, Athens, Greece

**IMPORTANT DATES**

- Submission of papers: **March 24, 2004**
- Notification of acceptance: April 14, 2004
- Camera-ready due: April 23, 2004

## Call for Papers

Data processing and storage resources have always constituted the heart of information infrastructures. Today, thanks to the ubiquitous connectivity offered by high-speed IP-based networks and the Internet, the amount, deployment complexity and performance requirements of information systems are increasing. Users now expect uninterrupted, responsive access to any information, from any system, from any location on their private network or the Internet. New technologies, tools and techniques are required for efficiently managing such resources.

Towards delivering these benefits, industry players and the research community are trying to develop techniques and protocols for seamless “LAN-like” interconnection of data processing and storage resources, spanning areas wider than the traditional data center and enabling interconnection over metropolitan and/or wide area networks (e.g. Metro Ethernet, AToM, FCIP, iSCSI, to name a few). At the same time, frameworks and tools for unified resource management of such elements, revealing essential similarities to the infrastructure virtualization concepts are being investigated. Moreover, Grid Computing is gradually moving from a novel supercomputing concept to a collection of fundamental methods of structuring, sharing and efficiently using data processing and storage assets. For instance, a particular class of emerging Grid applications deals with the problem of unified management of different data centers and storage networks owned by an organization as a single virtual data center.

The DPSN04 Workshop has two aims: (i) to compile the best of current industry trends and ongoing research developments that aim at providing end-to-end solutions for the seamless interconnection and unified resource management of data processing and storage networking resources; (ii) to investigate novel concepts and architectures promoting the virtualization of such resources, as well as their pertinence to Grid computing and to explore the latter’s potential applications in data centers and storage networks.

Authors are invited to submit complete unpublished works as well as short papers presenting works on progress or preliminary results covering (but not limited to) the following topics:

- Protocols and techniques for seamless interconnection of data processing and storage resources within and outside the data center
- Technologies, architectures and frameworks for virtualization of data processing and storage networking resources, especially with a view to homogenizing management, provisioning and configuration
- Computational and Data Grid Architectures, towards unifying data processing and storage infrastructures
- Performance analysis and QoS control aspects of data processing and storage networking
- Network, Middleware and Application performance modeling and control aspects in Grid Computing
- Reliability Analysis/Design for data processing and storage networking and Grid computing
- Autonomic Computing and Grids
- Clustering vs. Grid computing: differences and migration strategies

- Enterprise applications and business models for Grid Computing

Papers should ideally focus on Grid computing and/or high-performance networking research results and on their application in operational contexts, with a view to evolving and/or replacing existing solutions.

## **INSTRUCTIONS FOR PAPER SUBMISSION**

The Workshop welcomes original and review papers from academic and industrial contributors dealing with the above or related issues. All submissions will be subject to review by two reviewers. Papers should be up to 6000 words in English, including bibliography and well-marked appendices. To submit a paper, send an email to [jsol@ait.edu.gr](mailto:jsol@ait.edu.gr) containing the title, the authors' names, e-mail and post addresses, phone and fax numbers and identification of the contact author and attach to the same message your paper in PDF or PostScript format. The paper must start with a title, a short abstract, and a list of keywords. Paper submission will also be possible through the electronic submission system of the conference, accessible at: <http://www.ece.ntua.gr/networking2004>.

All the accepted papers will be published in the workshop's proceedings. Also, reputable journals relevant to the workshop theme have been contacted for the possibility of publishing extended versions of selected papers of the Workshop in a forthcoming special issue.

## **WORKSHOP CHAIRS**

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