2nd Conference on Next Generation Internet Design and Engineering
April 3-5, 2006. Valencia SPAIN

Technical cosponsors:

Purpose of the conference

After the very successful NGI 2005 conference in Rome (Italy) (http://www.eurongi.org), the Network of Excellence EURO-NGI is organizing its second annual conference, NGI 2006, in Valencia (Spain). The conference is a key event contributing to reach the Euro-NGI targets of integrating the European research effort in the Next Generation Internet domain and to strengthen the collaboration with non European researchers and institutions. NGI 2006 will provide an international forum for the presentation of high quality, peer-reviewed papers relating to the design and engineering of the next generation Internet.

The Future Generation Internet (FGI) will offer multi-service/multimedia, services convergence, mobility, service ubiquity and context awareness, fixed-mobile convergence, Quality of Service, variable connectivity ("always best connected"), spontaneous networking, autonomic networking and other capabilities as the norm.

Technology diversity is growing fast and mastering such a heterogeneous environment and accounting for the corresponding complex constraints becomes essential for network designers.

The target of the new architectures is "any personalised service, at any time, everywhere". This new environment makes obsolete the design and engineering methods and tools currently available and forces the scientific community to develop new principles and methods to design, to plan, to dimension, to control and to manage the new multi-technology architectures. These architectures will provide a seamless end-to-end connectivity by hiding the technology and environment diversity from service developers and users.

In addition, future high-speed wire-line and wireless access technologies will provide instant high bandwidth connectivity, which will make it more difficult to forecast traffic and thus to apply existing traffic engineering methods.

Contributions are therefore welcome on the design of these future network and services architectures as well as in innovative traffic engineering and traffic management approaches for those future networks.

The conference calls for papers relating to the above issues. Of particular interest is the following, non exclusive, list of principal topics:

- Access networks integration and always best connected
- All-IP networking
- Autonomic networking
- Carrier Ethernet networking
- Congestion control
- Control plane architectures
- Cost models and pricing
- Evolution of the IP network architecture
- Infrastructure and management for new services
- Integration of fixed and mobile networks
- Internetworking
- Location services
- Measurements on test bed or real networks
- Methods for network resilience
- MPLS and GMPLS
- Multilayer design and optimization
- Multicast systems
- Network design tools
- Network management
- Network planning
- Numerical methods and simulation
- Optical networking
- Passive and active measurements
- Peer-to-Peer
- Platforms and test beds for traffic engineering
- Protection and restoration strategies and algorithms
- QoS in wireless and wired networks
- Robustness of access networks
- Routing in next generation networks, beyond BGP
- Security and cryptography
- Spatial modelling
- Traffic characterization
- Traffic engineering
- Traffic management
- Traffic modelling
- Wireless Sensor Networks and the internetworking between the real and digital worlds

Manuscript Submission

All papers should be submitted electronically as PDF files, according to the IEEE Xplore publisher format.

Additional information including the complete "Guidelines for authors" is available at the publisher site. The papers will be published both in the conference proceedings distributed in CD at the conference and, subsequently, in a book published by the IEEE.

It is intended to publish extended versions of the best papers as a special issue of a major networking journal.

For more information please, see the conference site: http://www.eurongi2006.upv.es.

For additional information please, send an e-mail at: info.eurongi2006@upv.es.

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