

TridentCom 2010

The 6th International Conference on Testbeds and Research Infrastructures for the Development of Networks & Communities

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Call for Papers

The convergence and evolution of networks and services in Information and Communications Technologies is continuing to drive the need for flexible testing and experimentation environments that respond to a large and diverse set of requirements. The corresponding testbeds range from small dedicated and well controlled environments up to large scale environments that should exhibit properties anticipated by the future network. The value generation has shifted from the network towards the applications and the networked society is calling for the service environments that will deliver the complex and valued services to the customer, yet a reliable service delivery depends on a reliable network.

Open testbeds are becoming state of the art, allowing both wide access as a shared resource and extensibility to include on-demand new end systems, network technologies, protocol stacks, and, most importantly, new middleware and service delivery platforms for specific test purposes. Major research and development programs around the globe have started to develop and deploy large scale experimental facilities, including GENI in the U.S., FIRE in Europe, AKARI, CNGI, and others in Asia.

Due to the increasing complexity, attention is increasingly being devoted to cross layer testbeds, which can support experiments spanning the network, service delivery and application layers. These *Testbeds and Experimental Facilities for the Future Internet* will play a pivotal role towards the future network, thus Tridentcom 2010 will devote significant attention to them. TridentCom 2010 will provide a forum to explore existing and planned testbed concepts, infrastructures, and tools to address the research and business challenges in a world of global convergence.

Prospective authors from academia, industry and government are invited to submit high quality papers in two categories, Full Papers and Testbed Practices Papers, as well as demonstration proposals reporting on all aspects of testbed and research infrastructure operation and management, including, but not limited to:

- Testbeds and Experimental Facilities for the Future Internet
- Federation of testbeds on a layer and cross layer basis
- Large scale testbed federations
- Governance in testbeds and testbed federations
- Future Internet and Clean Slate Protocol Stack testbeds
- Virtualized Network and Network Federation testbeds
- GRID, P2P and Overlay testbeds
- Autonomic Communications and Self-managing Network Testbeds
- Future Wireless Network Testbeds
- Future Optical Network Testbeds
- Ubiquitous Network and Seamless Services Testbeds
- End System and Sensor Testbeds
- Smart Home and Converged Communication and Media Services Testbeds
- SOA/Web 2.0 Services Testbeds
- Next Generation Services Testbeds
- Service Creation and Provisioning Testbeds
- Next Generation Networks, IMS, and Quad Play Testbeds
- Configurable Hardware/Software Platforms for Testbeds
- Testbed Tools for Interoperability, Benchmarking and Traffic Measurements
- Innovative Measurements Methodologies and Tools for Networks and Services
- Industrial informatics
- Wireless industrial communications
- Networked industrial automation

The conference proceedings will be published in the series of the Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering (LNICST) by Springer. Selected papers will be considered for publication in ACM/Springer Mobile Networks and Applications Journal (MONET) and a special for International Journal of Communication Networks and Distributed Systems (IJCNDS). Authors are invited to submit Full Papers of up to 16 pages and Testbed Practices Papers of up to 10 pages, including references, figures and tables, formatted according to the Authors' Instructions for contributions to LNICST proceedings. Proposals for workshops, panels and tutorials are also welcome. Detailed submission and format instructions are available on the website:

<http://www.tridentcom.org>

Important Dates

Papers due:	30 October 2009
Workshop proposals due:	15 September 2009
Notification of paper acceptance:	15 January 2010
Submission of camera-ready papers:	15 February 2010