ITC-22

Call for Papers

Amsterdam, Netherlands
September 7-9, 2010

22nd International Teletraffic Congress

www.i-teletraffic.org/future-itc-congresses/
www.i-teletraffic.org/itc22/call-for-papers/

ITC provides a venue for researchers interested in understanding and improving the way traffic is handled in communication networks. The rapid evolution of these networks, driven by the proliferation of broadband applications, mobility, new usage models and advances in technology, raises a critical need for continuous reappraisal of traffic management procedures and mechanisms.

In parallel with the effort to improve network efficiency and performance, there is major activity worldwide on the design of new architectural principles and concepts for future networks. How will technological innovations and content-centric networking impact our ability to control traffic flows? What architectural elements and business models are needed to meet user expectations for service quality and reliability in a cost-effective way?

ITC-22 solicits submission of papers with original contributions relating to traffic and performance issues in computer networks and communication systems. While technical correctness is an obvious requirement, it is not sufficient, and ITC-22 in particular welcomes contributions that address novel issues, pioneer disruptive paradigms, or propose innovative models and techniques. Specific topics of interest include, but are not limited to:

Network technologies and paradigms

Cognitive radio networking
Content delivery and storage networks
Delay-tolerant and opportunistic networking
Future Internet design
IP/MPLS/Carrier Ethernet networks
Multi-carrier networks
Optical networks
Sensor networks
UMTS, WiFi, WiMax and LTE networks
Wireless adhoc and mesh networks

Network planning, QoS and associated performance issues

Capacity planning methods and tools
Planning for multi-carrier networks
Performance and reliability tradeoffs
Robustness and reliability issues
Web-based applications
Network design methods
Performance of wireless/wired networks
Pricing and billing
Business models for QoS
SLA monitoring

Traffic management and measurement

Admission control
Application traffic management
Dynamic bandwidth management
Intelligent adaptive routing
Location and mobility management
Multi-domain issues
Network tomography, traffic matrices
Overload and congestion control
Protection, switching and restoration
Traffic and performance monitoring

Applications

Application layer networks and overlays
Virtualization
Distributed, grid and cloud computing
Efficient content delivery technologies
Internet of Things
IPTV, WebTV
P2P and distributed lookup
Social networks
Tele-medicine, -education, -metry
Web-services and SOA

Models and techniques

Cross-layer design and optimization
Game-theoretic models
Self-optimization approaches
Performance models for voice, video, data and P2P applications
Random graph models
Resource allocation and management
Scheduling algorithms
Simulation methods and tools

Security-related issues

Anomaly detection
Detection of DoS attacks
Attack mitigation methods
Epidemiological models
Worm and virus propagation
Privacy and trust

Publications and awards

All accepted contributions will appear as full papers in the conference proceedings with oral presentations. In order to guarantee the high visibility of the conference, the proceedings will be available through IEEE Xplore. ITC offers two prestigious awards: a General Best Paper Award and a Best Student Paper Award. For a paper to be eligible in the latter category, the student must be first author and presenter of the work. Please check the ITC-22 website for further details.

Important dates

- Paper registration deadline: January 18, 2010
- Submission deadline: January 25, 2010
- Acceptance notification: April 16, 2010
- Final version: May 14, 2010
- Conference: September 7-9, 2010

General Co-Chairs

Hans van den Berg (TNO & Twente University)
Rob van der Mei (CWI & VU University)

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Sem Borst (Alcatel-Lucent Bell Labs & TU Eindhoven)
Michel Mandjes (University of Amsterdam)
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