

ITC 24

Call for Papers

Kraków, Poland

September 4-7, 2012



<http://www.itc24.net/>

24th International Teletraffic Congress

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www.i-teletraffic.org

The rapid evolution of communication and telecommunication industries driven by technological advances and new business models calls for continual reappraisal of the methods used for their analysis, control and management. Over the past five decades, ITC has provided a forum for leading researchers from academia and industry to address some of these key methodological approaches for the design and control of networks with increasing focus on applications.

In addition to improving efficiency and performance, there is also a need for understanding the benefits and costs of emerging architectural shifts for the future Internet. What network control and optimization issues are raised by virtualization and cloud computing? What design principles might help simplify migration of communication networks to become information centric and flow-aware? What architectural elements and business models are needed to meet user expectations for service quality, reliability and security?

Now held annually, ITC solicits submission of original contributions in traditional traffic and performance of computer communication networks as well as emerging architectural topics outlined above. While technical correctness is an obvious requirement, ITC 24 encourages contributions that address novel topics, pioneer disruptive paradigms, or propose innovative models and techniques. Specific topics of interest include, but are not limited to:

Network technologies and paradigms

Content delivery and storage
Future Internet design
Carrier networks
Optical networks
Data centers
Delay-tolerant networks
Cellular networks
Wireless adhoc and mesh networks
Sensor networks
Cognitive radio

Applications

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

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
Network design methods
Performance of wireless/wired networks
Pricing and billing
Business models for QoS

Models and techniques

Self-optimization approaches
Optimization techniques
Game-theoretic models
Queueing and traffic models
Random graph models
Resource allocation and management
Scheduling algorithms
Network coding
Cross-layer design and optimization
Simulation methods and tools

Traffic management and measurement

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

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 the first author and presenter of the work. Please check the ITC 24 website for further details.

Important dates

- Paper registration deadline: March 5, 2012 (extended)
- Submission deadline: March 5, 2012 (extended)
- Acceptance notification: May 18, 2012
- Final version: June 8, 2012
- Conference: September 4-7, 2012

General Co-Chairs

Andrzej Jajszczyk (AGH Univ. of Science and Technology)
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