



CALL FOR PAPERS AND PARTICIPATION

NETWORKS 2008

**13th International
Telecommunications Network Strategy
and Planning Symposium**



„Convergence in Progress“

DANUBIUS HEALTH SPA RESORT MARGITSZIGET
BUDAPEST, HUNGARY

September 28 – October 2, 2008

www.networks2008.org

Networks 2008 will focus on the challenges of planning networks to deliver on the promise of Convergence and NGN. The challenges are many – how to build high performance networks for converged services where every step is cost justified and drives profitable growth, where difficult issues of scalability, end-to-end network performance, network management, network and service control, reliability, security and interoperability are planned and then realized, and where flexibility is maintained to allow experimentation with new applications that can foster new and compelling revenue streams for operators. Unleashing the core value of convergence and the reduction in the number of network platforms requires innovation in network planning methods, scalable architectures, new optimization algorithms, and understanding the tradeoffs between different technology choices and migration paths.

We are living in very interesting times right now. The revolution we had been hoping for is finally taking place. Mobile and fixed operators are moving to next generation networks. Hundreds of trials are underway. Many operators have made recent commitments, very significant investments towards their future vision, often reducing spending drastically on extensions to current infrastructures to allow spending on new platforms. At such times, industry professionals are on a high learning growth curve and there is an urgent need for forums where true learning can occur thru the exploration of diverse perspectives and opposing viewpoints, the presentation of leading-edge results in planning specific networks, and state-of-the art methods and tools.

Networks 2008 provides such an opportunity. It is the 13th of such symposia, held every two years, and attracting participants from all over the world – from network operators, to systems and software companies, to researchers from universities and industry, to systems integrators. At **Networks 2008**, we will continue the tradition of state-of-the art papers, invited presentations, and panel sessions, as international experts present their latest findings and share experiences in network strategy, planning, operations, management, control and design.

May we invite you to participate in Networks 2008!

THE NETWORKS 2008 WILL CONSIST OF:

Invited Talks and Plenary Panel Sessions on Hottest Topics

The plenary sessions of the symposium will be distinguished by presentations and debates of some of the foremost figures in the telecommunications sector.

Technical Contributed Sessions

The symposium will feature technical presentations on network strategy, planning, management, control and design. They will be selected from submitted papers through peer review. **Paper submission deadline: February 29, 2008.**

Tutorials

Tutorial sessions on Monday, September 29 will provide education on various topics in network strategy, planning, management control and design. Experts from industry and science are invited to propose relevant contributions for the tutorial programme.

Tutorial chair: Andrzej Jajszczyk (jajszczyk@kt.agh.edu.pl)

Tutorial proposals due: April 11, 2008.

Exhibition, Tools Demonstration

A tools demonstration is planned to give companies and universities the opportunity to present themselves and their services as well as latest developments in hardware and software. You can download the Call for Exhibition and the Exhibition Order Form from the web site of the event (www.networks2008.org). For more details, please, contact the Conference Secretariat (info@the.hu) or Exhibition chair: Dr. Csaba Kántor (dr.kantor.csaba@t-online.hu).

NETWORKS 2008 KEY THEMES:

1 Convergence at Different Domains

- a) Business strategy for convergence in competition
- b) Economies of scale at network, services, access, terminals and operation domains
- c) Triple play and Multiple play. Architectures and solutions
- d) Fixed-Mobile-Nomadic convergence
- e) Broadband Mobile-Broadcast/Multicast convergence
- f) IMS architecture and applications solutions
- g) Addressing and numbering issues
- h) Example cases on convergence

2 Migration to NGN and Mobile Broadband

- a) NGN and IMS architectures and solutions
- b) Migration steps to NGN based on economical evaluation and security
- c) New services driving evolution to NGN
- d) Migrating to multimedia/multiservice environment
- e) VoIP solutions: service, performance, cost and revenues impacts
- f) IPTV demand and design
- g) Migration alternatives from 2G to 3G and economical evaluation, Services driving 3G business
- h) Interoperation across multiple domains
- i) Regulation and interconnection issues in NGN, Network certification process

3 Routing, Traffic Flows and Optimization

- a) Multiservice traffic measurement, analysis, characterization and simulation at network level
- b) Multiservice flow matrix and aggregation methods
- c) New signaling and control in multimedia/multisystems
- d) P2P (peer-to-peer) traffic flows and implications on network demand
- e) Impact of GRID services
- f) Intra-Domain and Inter-Domain routing, TE (Traffic Engineering) and resilience
- g) Optimization process with technical and economic criteria
- h) Using Game Theory, Meta-heuristics and LP/ILP

4 Network Design and Planning Methods

- a) Network design methods for multimedia services
- b) Network topology design and optimization at different layers: physical, optical, media and control
- c) Quality of Service, Quality of Resilience, performance and SLA
- d) VPN design
- e) Ad-hoc networking
- f) Sensor networks and autonomic networks
- g) End-to-End service performance evaluation
- h) Network security
- i) Network resilience: survivability, protection, restoration and availability
- j) Cost modelling and pricing



5 Role of New Technologies, Developments and Standards

- a) Optical switching
- b) New generation SDH, OTN
- c) New generation internet and IPv6
- d) Carrier Grade/Class Ethernet: 100GEth, VPLS, PBB,
- e) GMPLS, PCE
- f) Mobile 3.5 and 4G, LTE (Long Term Evolution)
- g) WiMax
- h) xDSL and FTTx, Power Line Communication (PLC)
- i) Broadcast/multicast systems. DVB-T/H

6 Network Planning Support Processes and Tools

- a) Multilayer planning process
- b) Business planning methods and tools
- c) Optical network design tools
- d) Access planning methods and tools
- e) NGN planning methods and tools
- f) 3G planning methods and tools
- g) OSS and BSS processes and tools
- h) Network Management support tools

AUTHOR GUIDELINES:

Each paper should clearly and concisely state the problem addressed, the methodology used, and the central conclusions. The title of the paper should convey the essence of the work. Papers must be unpublished. All papers will be reviewed by Technical Program Committee members and other experts active in the field to ensure high quality and relevance. Authors of accepted papers must attend the conference to present their contributions. Papers must be submitted electronically through the EDAS system (details will be available at the www.networks2008.org). Each submission must be accompanied by the following information: a short abstract (up to 300 words), a complete list of authors and their affiliations, a contact person for correspondence, postal and e-mail addresses, phone and fax numbers.

Please, indicate preferred topic areas, using the list of main topics (e.g. 3f). The total length of papers should be between 6 and 10 pages.

Accepted papers will be published by the HTE and the IEEE. HTE will own the copyright transferred to them by the authors. These papers will also be available electronically from IEEE Xplore (ieeexplore.ieee.org), the digital library of the IEEE.

Format requirements:

Guidelines for formatting the paper can be obtained from <http://www.ieee.org/web/publications/authors/transjnl/>

IEEE style files for Latex and templates for MS Word are also available:

Unix LaTeX2e Transactions Style File (http://www.ieee.org/portal/cms_docs_iportals/iportals/publications/journmag/transactions/IEEETran.tar.gz) (TAR.GZ, 204 KB)

Unix Bibliography File (http://www.ieee.org/portal/cms_docs_iportals/iportals/publications/journmag/transactions/IEEETranBST.tar.gz) (TAR.GZ, 204 KB)

Template and Instructions on How to Create Your Paper (http://www.ieee.org/portal/cms_docs_iportals/iportals/publications/journmag/transactions/TRANS-JOUR.doc) (MS Word, 92 KB)

Best paper award and Journal publications:

The top 10% papers receiving highest reviewer score will be invited to related Journals. Based on scores and the oral presentation up to 3 papers will be chosen for the best paper award.

Important Dates:

Electronic Paper Submission	February 29, 2008
Tutorial Submission	April 11, 2008
Acceptance Notification for papers	May 9, 2008
Final Version of Accepted papers and copyright	August 1, 2008

CONFERENCE FEES:

Fees: 500€ (early registration) or 700€ (late registration)

Networks 2008 will offer a number of reductions for students, IEEE members, HTE members. Further details will be announced later.

PATRONAGE:

Showcase your brand to one of the most influential engineering audience in communications technology.

Promotional opportunities are available on a first-come, first-served basis. Reserve the opportunity that spotlights your company's name and start preparing for your company's exposure at the industry's most prestigious event. Industry Patron Program available at the website of the event (www.networks2008.org).

If you are interested, contact the Conference Secretariat (info@hte.hu) or Patron chair: Dr. Gábor Huszty (ghuszty@entel.hu).

VENUE:

Danubius Health Spa Resort Margitsziget:

(www.danubiushotels.com/margitsziget) is situated on Budapest's Margaret Island, adjacent to Danubius Grand Hotel Margitsziget, connected to it by an underground corridor. Services of both hotels are at our guests' disposal. Margaret Island was originally three separate islands that were joined together in the 19th century. The island, which stretches for 4 kilometres, is a protected leafy botanical parkland with ancient trees, a Japanese Garden, a Rose Garden, an open-air amphitheatre, walking and jogging tracks. The island is car-free (hotel guests can enter the island), peaceful and perfectly placed in the middle of the city, between Pest and Buda, on the River Danube.



About Budapest:

There are those who fall in love with the city at first sight and those who only warm up after a longer relationship, still everyone agrees that it is one of the most beautifully situated cities in the world. The great river Danube cuts it in two, and separates the hills and valleys of the western, Buda side from the flat, Pest side in the east. The settlement of Buda is as old as the Conquest itself (896), but it only started to develop in the 13th century when King Béla IV built a castle on the hill for protection against the Mongol attacks. The court moved to Buda in 1347, and the castle was enlarged into a palace in the Gothic style of the time. During the reign of King Matthias it became a dazzling Renaissance royal residence. Partially based upon its ruins the palace was enlarged in its present baroque style. The city Budapest was born in 1873 with the unification of Buda, Óbuda and Pest, for which a new, representative royal palace was built. Out of the seven road bridges four are part of the World Heritage.

About Hungary:

Situated at the crossroad of East and West Europe, sustaining original traditions and culture in the course of a unique history of glories and tragedies Hungary offers special regions and monuments on the UNESCO World Heritage list worth to be visited.

NETWORKS HISTORY:

1980	Paris, France	1992	Kobe, Japan	2000	Toronto, Canada
1983	Brighton, UK	1994	Budapest, Hungary	2002	München, Germany
1986	Innisbrook, Florida, USA	1996	Sydney, Australia	2004	Vienna, Austria
1989	Palma de Mallorca, Spain	1998	Sorrento, Italy	2006	New Delhi, India

NETWORKS 2008 IS ORGANIZED BY:

**Department of Telecommunications and Media Informatics (TMIT)
Budapest University of Technology and Economics (BME) (www.tmit.bme.hu)**



Scientific Association for Infocommunications (HTE) (www.hte.hu)



**Information Technology Society, Association for Electrical, Electronic
& Information Technologies (ITG-VDE) (www.vde.com)**



Committees:

International Management and Scientific Committee (IMSC)

IMSC Chair: Gyula Sallai, BME-TMIT and HTE, Hungary (sallai@tmit.bme.hu)

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Oscar Gonzalez-Soto, ITU Consultant, Spain
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International Programme Committee (IPC)

Chair: Tibor Cinkler, BME-TMIT, Hungary (cinkler@tmit.bme.hu)

National Advisory Board (NAB)

Chair: László Pap, BME-HIT and HTE, Hungary (pap@hit.bme.hu)

Local Organizing Committee (LOC)

Chair: Péter Nagy, HTE, Hungary (nagy.peter@hte.hu)

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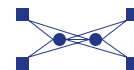


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