

## About Networks 2010

Networks 2010 is the 14<sup>th</sup> conference in the series of the International Telecommunications Network Strategy and Planning Symposia. Since the first event held in Paris (France) thirty years ago, the symposia have visited Brighton (UK), Innisbrook, (Florida, USA), Palma de Mallorca (Spain), Kobe (Japan), Sydney (Australia), Sorrento (Italy), Toronto (Canada), Munich (Germany), Vienna (Austria), New Delhi (India) and twice in Budapest (Hungary).

The events have attracted participants from around the world, ranging from telecom operators and regulatory and standard bodies, through systems and software companies and research units from universities and industry, to systems integrators. Networks symposia are among the best places to share ideas about developments in strategies and planning of the evolution of networks, services and technologies, as well as the techno-economic impact of the rapidly changing business environment.

Networks 2010 will focus on the strategic planning challenges necessary to deliver the promise of the Network of the Future. In particular, the conference will address the planning issues related to converged network platforms, services and applications.

The motto of Networks 2010 is:

### **Networks for the e-Society**

## Paper Submission

The authors are encouraged to submit full papers describing original, previously unpublished research results, not currently under review by another conference or journal. All papers will be reviewed. Accepted papers will be included in **IEEE Xplore** and additionally in printed proceedings with the ISBN number 978-1-4244-6703-7. Papers must be submitted electronically via EDAS.

## Journal Special Issue

Extended versions of papers of special merit will be published in a special issue of **Telecommunication Systems Journal (Springer)**.

## Sponsors and Exhibitions

Organizations and institutions are invited to become a sponsor of the conference. A dedicated space will be offered for exhibitions as well as tools demonstrations.

## Venue

The conference will take place in Warsaw – the capital of Poland.

The city of Warsaw is one of the greatest cultural, entertainment, and financial centres of Poland.



Warsaw has more than 1.6 million inhabitants. The city is also one of the most dynamic regions in central Europe.

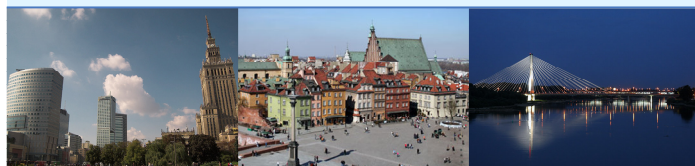
Warsaw is easily accessible from major airports all over the world. Warsaw's Fryderyk Chopin Airport receives daily flights from major European cities.



The venue of NETWORKS 2010 is the **MARRIOTT HOTEL**.

The hotel is located in central Warsaw, next to the central railway station, shopping mall "Złote Tarasy", and Palace of Culture. The hotel offers 518 guest rooms including 95 suites. On-site parking is available.

**Address:** Warsaw Marriott Hotel  
Al. Jerozolimskie 65/79  
PL-00-697 Warsaw, Poland



## Important Dates

Paper submission (firm deadline)	<b>April 1, 2010</b>
Acceptance notification	<b>May 31, 2010</b>
Camera ready submission	<b>June 15, 2010</b>
Tutorial proposal submission	<b>April 15, 2010</b>

## Conference Secretariat

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## CALL FOR PAPERS

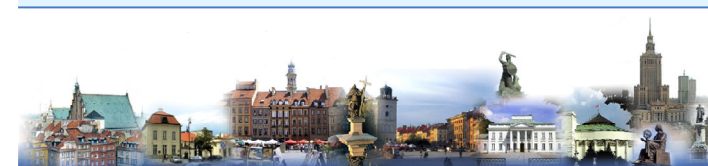


# NETWORKS 2010

14<sup>th</sup> International Telecommunications  
Network Strategy and Planning  
Symposium

**27-30.09.2010**

Marriott Hotel  
Warsaw, Poland



## Organized by



Warsaw University of Technology  
[www.pw.edu.pl](http://www.pw.edu.pl)



Stowarzyszenie Inżynierów  
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[www.networks2010.pl](http://www.networks2010.pl)

## Conference Scope

### Network Design and Planning Methods

- network design methods for multimedia services
- network topology design and optimization at different layers: physical optical, media and control
- Quality of Service, Quality of Resilience, performance and SLA
- VPN design
- ad-hoc networking
- sensor networks and autonomic networks
- end-to-end service performance evaluation
- network security
- network resilience: survivability, protection, restoration and availability
- cost modeling and pricing

### Migration to NGN and Mobile Broadband

- NGN and IMS architectures and solutions
- migration steps to NGN based on economical evaluation and security
- new services driving the evolution to NGN
- migrating to multimedia/multiservice environment
- VoIP solutions
- migration alternatives from 2G to 3G/4G
- IPTV solutions
- interoperation across multiple domains
- regulation and interconnection issues in NGN

### Routing, Traffic Flows and Optimization

- multiservice traffic measurement, analysis, characterization and simulation at network level
- multiservice flow matrix and aggregation methods
- cross-layer, multi-layer issues
- new signaling and control in multimedia/multisystems
- P2P (peer-to-peer) traffic flows and implications on network demand
- impact of GRID services
- impact of mass market video services
- intra-domain and inter-domain routing, traffic engineering, resilience
- optimization process with technical and economic criteria
- using game theory, meta-heuristics and LP/ILP

### Convergence of Different Domains

- business strategy for convergence in competition
- economies of scale at network, services, access, terminals and operation domains
- triple play and multiple play; architectures and solutions
- fixed-mobile-nomadic convergence
- broadband mobile-broadcast/multicast convergence
- IMS architecture and applications
- addressing and numbering issues
- home networking for triple play usage
- impact of bundle offers and tariffs on customer attraction and business

### Role of New Technologies, Developments and Standards

- optical switching
- new generation SDH, OTN
- new generation Internet and IPv6
- carrier grade/class Ethernet: 100GEth, VPLS, PBB
- GMPLS, PCE
- mobile 3.5 and 4G, LTE (long term evolution)
- WiMax
- xDSL and FTx, power line communication (PLC)
- broadcast/multicast systems; DVB-T/H and the new DVB-SH

### Network Planning Support Processes and Tools

- multilayer planning process
- business planning methods and tools
- optical network design tools
- access planning methods and tools
- NGN planning methods and tools
- 3G planning methods and tools
- OSS and BSS processes and tools
- network management support tools

## Conference Organization

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