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NETWORKS 2010

14th International Telecommunications Network Strategy and Planning Symposium
27-30.09.2010, Warsaw, Poland



Networks for the e-Society

Call for Papers

Networks 2010 is the 14th 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), Innsbrook, (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. Networks 2010 key themes include:

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

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

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

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 FTTx, power line communication (PLC)
- broadcast/multicast systems; DVB-T/H and the new DVB-SH

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

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

Exhibition, Tools Demonstration

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 an ISBN number. Extended version of papers of special merit will be published in **Telecommunication Systems Journal (Springer)**.

Papers must be submitted electronically via EDAS. The total length of a paper should not exceed 6 pages formatted according to the instructions *Template and Instructions on How to Create Your Paper*, available at <http://www.ieee.org/web/publications/authors/transjnl/>

Important dates: Paper submission deadline (firm): **April 1, 2010**

Tutorial proposals: **April 15, 2010**

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