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**IFIP**

**COEX Convention Center, Seoul, Korea**

**19-23 April 2004**

## 2004 IEEE/IFIP Network Operations & Management Symposium

**"Managing Next Generation Convergence Networks and Services"**

<http://www.noms2004.org/>

### Call for Papers

The 9<sup>th</sup> IEEE/IFIP Network Operations and Management Symposium (NOMS 2004) will be held 19-23 April, 2004 in COEX Convention Center, Seoul, Korea. NOMS 2004 will present the latest approaches and technical solutions in the area of network operations and management. Held in the even-numbered years since 1988, NOMS 2004 continues the established tradition of NOMS and IM as the primary forum for technical exchange of research, standards, development, systems integrator, service providers, and user communities. An exciting, peer-reviewed program of technical sessions, application sessions, panels, tutorials, posters, and vendor exhibits will address the ever-increasing interest in overall management solutions for all types of communications and computing networks, systems, services and enterprise applications.

The NOMS 2004 program consists of three distinct sessions: technical, application, and panels. Technical sessions present the papers on the latest research results in the network operations and management area. Application sessions present the papers focusing on the experience of IT/telecommunications industries (service providers, OSS/equipment vendors, etc.) and customers based on their system implementation and business practice in the operations and management. Panel sessions focus on business implications, market trends of cutting edge technologies, and applications with the panelists consisting of technology experts and business executives. In addition, NOMS 2004 will feature tutorials, posters, birds-of-a-feather sessions, and vendor exhibitions.

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Masayoshi Ejiri, Fujitsu, Japan

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Raouf Boutaba, U. of Waterloo, Canada  
Seong-Beom Kim, KT, Korea

**Tutorial Program Co-Chairs:**

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Young-Tak Kim, Yeungnam U., Korea

**DEP/Keynotes Co-Chairs:**

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Il-Soo Ahn, Samsung Electronics, Korea

**Panels Co-Chairs:**

David Milham, BTextact Tech., UK  
Joong-Goo Song, KT, Korea

**Application Session Co-Chairs:**

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Yoshiaki Kirihata, NEC, Japan

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Choong-Seon Hong, KyungHee U., Korea

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Morris Sloman, Imperial College, UK  
Doug Zuckerman, Telcordia Tech., USA

**Management Paradigms, Models and Architectures**

- Self-managing networks (self-healing, self optimizing, self-protecting and self-configuring)
- Integrated Control and Management
- Distributed and Scalable Management
- Policy and Role Based Management
- Programmable, Active and Adaptive Mgm
- Resilience and Survivability
- "Plug-n-Play" Components-Based Management
- Customer Network Management
- Proactive and Reactive Management

**Operation and Management Functions**

- Security Management
- Mobility Management
- Network and Systems Monitoring
- Alarm Correlation and Filtering
- Customer Care and Workforce Management
- Process Engineering for Operators' Service and Network Management
- Performance and Fault management
- Configuration and Accounting management
- Integration and Testing of Commercial off-the-Shelf Products
- Path Protection and Restoration
- Internet Service Pricing, Bandwidth Trading

**Service Engineering and Operational Challenges**

- Next Generation Operations Support Systems
- Service design, provisioning and quality assurance
- Resource inventory, planning and allocation
- Service discovery and negotiation
- SLA and business process management
- Quality of Service Management
- Service Portability and Mobility
- Transaction-Oriented Services and Supply Chain Management
- Dynamic Service Requirements Analysis
- Automated Service Activation

**Theories and Enabling Technologies for Management**

- Theory (control, optimization, economic, games, chaos, graph) for management
- Grid, Middleware and Peer-to-Peer Technologies
- Information models and Internet technologies (Web, XML, DEN, CIM)
- AI techniques (knowledge-based, intelligent agents, machine learning, neural networks)
- Data Warehousing, Ontology, Mining and Statistical Methods in Management
- User Interfaces and Virtual Reality in Management

**Management of Emerging Networks and Services**

- Converged networks and services
- Peer-to-peer and community networks
- Grids, Grid services and Grid applications
- Ad hoc and self-configurable networks
- Multisensors and self-organizing networks
- Overlay networks, Virtual topologies and VPN services
- Wireless Broadband Networks (2G, 2.5G, 3G, and beyond)
- High Speed Access, Wireless Local and Personal Area Networks
- Optical Networks (Metropolitan, All Optical, WDM, DWDM, Optical IP)
- "Soft" Networks (Soft-Switch, Parlay, 3GPP OSA, JAIN) and Service Switching
- Video and Broadband Cable Networks
- IPv4/v6 Networks and Services (VoIP, Video distribution)
- Storage Area Networks (SAN) and ASP server farms
- Content Hosting and Delivery
- Web Services and Content Delivery Networks
- Smart Homes and Networked Haptics
- Satellite and Interplanetary Networks
- e-World (e-health, e-commerce, e-business, e-government)

Submission Type	Co-Chairs	Email Addresses	Due Date
Technical Session Papers	Raouf Boutaba Seong-Beom Kim	rboutaba@uwaterloo.ca sbkimm@kt.co.kr	Aug. 15, 2003
Application Session Papers	Jae-Hyoung Yoo, Yoshiaki Kiria	styoo@kt.co.kr, kirihata@ccm.cl.nec.co.jp	Sept. 15, 2003
Panel Proposals	Dave Milham, Joong-Goo Song	dave.milham@bt.com, songjg@kt.co.kr	
Tutorials	Christian Rad, Young-Tak Kim	crad@att.com, ytkim@yu.ac.kr	
Posters & BoF	Choong-Seon Hong	cshong@khu.ac.kr	Nov. 15, 2003
Patrons & Exhibitions	Cam Granstra Tae M. Chung, Dongsik Yun	cgranstra@tmforum.org, tmchung@ece.skku.ac.kr, dsyun@kt.co.kr	