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IM™ 2005

9th IFIP/IEEE International Symposium on Integrated Network Management

15-19 May, 2005, Nice, France

"Managing New Networked Worlds"

<http://www.ieee-im.org/>

CALL FOR PAPERS

The Ninth IFIP/IEEE International Symposium on Integrated Network Management (IM 2005) will be held 16-19 May 2005 in Nice, France. IM 2005 will present the latest technical advances in the area of management, operations and control of networks, networking services, networked applications, and distributed systems. Held in odd-numbered years since 1989 and taking turns with its sibling conference NOMS, IM 2005 will build on the successes of its predecessors and serve as the primary forum for technical exchange among the research, standards, vendor and user communities in the network management field. The symposium is sponsored by the International Federation for Information Processing (IFIP) Working Group 6.6 on Management of Networks and Distributed Systems, and by the IEEE Communications Society Technical Committee on Network Operations and Management (CNOM).

We are witnessing the dawn of a new era in networking. New networked worlds emerge in which connectivity becomes increasingly ubiquitous and the infrastructure blends in seamlessly with business functions, applications, and the supported environment. These new worlds are characterized by properties such as convergence, context awareness, accelerated service lifecycles, virtualization of resources, massive P2P infrastructures, and unprecedented security challenges. Further, new types of networks are emerging such as sensor, agent, storage-area, and grid-based networks. All of this incurs new challenges and opportunities for network management and the ways in which it is approached, requiring management technology to evolve as rapidly as the new networked worlds.

IM 2005 will be organized into technical sessions, panels, and tutorials. In addition, it will feature an industrial experience track to share practical lessons learned by the user and vendor communities, posters, birds-of-a-feather sessions, and vendor exhibits. In the tradition of previous events, we strive to make the IM 2005 Symposium the highest quality professional event of the year. Paper submissions will undergo a stringent review process implemented by the Technical Program Committee which includes many of the most respected experts in the field.

Authors are invited to submit complete unpublished papers, which are not under review in any other conference or journal, as well as proposals for tutorials, panel discussions, poster demonstrations, or birds-of-a-feather sessions. Detailed submission instructions are available on the symposium Web site, <http://www.ieee-im.org/>. Topics of interest include but are not limited to the following:

Management paradigms, models, and algorithms

- Integrating control and management, cooperative control
- Self management and management automation
- Policy and role based management
- Advanced management instrumentation
- Adaptive and programmable management
- Information modeling
- Management ontologies

Management functions and operational challenges

- Security management, defense against security threats
- Network and service monitoring, event correlation, filtering
- Network and service diagnostics, proactive management
- Business and operational processes
- Traffic engineering and measurement
- Service creation, deployment, and provisioning
- Accounting, charging and billing
- Service portability and mobility
- SLAs, service level monitoring, QoS management
- Managed services management
- Scalability, resilience and survivability

Management standards, platforms and technologies

- Next-generation Operations Support Systems
- Internet management standards and technologies
- Open source software
- Management and the Web
- Component based management and plug&play
- Case studies, integration experiences with management platforms & COTS software

Management of new networked worlds

- Wireless sensor networks, RFID-enabled networks
- Overlay networks, virtual topologies, VPN services
- Virtualized resources
- Context and subscriber aware networks, mobile computing
- Ad hoc and self organizing networks
- Smart homes, Piconets, PANs
- Storage Area Networks and ASP server farms
- Web services, content hosting, switching, delivery
- Resource-aware applications, power constrained resources
- Converged networks and services
- IPv4/v6 networks and services, VoIP, video distribution
- Powerline Internet, optical networks, metro Ethernet, WLANs
- Grid, peer-to-peer networks and services

TECHNICAL PROGRAM - IMPORTANT DATES:

Submission: 23 August 2004

Notification: 26 November 2004

Camera ready: 15 January 2005

INFORMATION:

im2005tpcchairs@loria.fr or

<http://www.ieee-im.org/>

IM 2005 will be co-located with TeleManagement World, offering to IM attendees access to TeleManagement World OSS expo at a discounted rate. TeleManagement World OSS Expo is open from Tuesday, 17 May - Thursday, 19 May

