CALL FOR PAPERS

Special Issue of *International Journal of Network Management* on

Management Solutions for QoS Support over the Entire Audio-Visual Service Distribution Chain

PUBLICATION: July-August 2007

A key element for the successful mass market provision of audio-visual services, which would produce revenues for the content/service providers and network operators, is the identification and implementation of management solutions that can guarantee end-to-end QoS delivery over heterogeneous networks and terminals. Currently, there is no complete and unified solution that enables the end-to-end delivery of services over various types of networks at a guaranteed quality level, although the problem has been investigated by many players in the field. Only partial solutions have been proposed so far that can provide end-to-end QoS only in special cases, e.g. for certain types of networks, for a single network operator, for specific types of services, for certain terminals, etc. This special issue is devoted to the research activities within industry and academia toward the identification of management solutions that cover the entire audio-visual service distribution chain, including content generation and protection, distribution across heterogeneous access and core networks and reception at various types of user terminals. The aim is not to impose a strategy on each individual entity of the chain, but to harmonize their functionality, in order to support an end-to-end QoS architecture over heterogeneous networks, applied to a variety of audio-visual services, which are delivered at various user terminals.

This special issue of the *International Journal of Network Management* is seeking new and unpublished contributions addressing issues in 'Management Solutions for QoS Support over the Entire Audio-Visual Service Distribution Chain' including, but not limited to:

- Business Models for the Entire Audio-Visual Service Distribution Chain
- Content Protection Technologies/Mechanisms
- Emerging Information Models and Frameworks (i.e., MPEG-21)
- End-to-End QoS Monitoring Mechanisms
- Empirical Studies/Measurements over Heterogeneous Testbeds
- Standards and APIs for End-to-End QoS Management

- Self-managing networks (self-healing, self-optimizing, self-protecting and self-configuring)
- "Plug-and-Play" Components-Based Management
- Open-Source Networking Software for Interworking among Heterogeneous Domains
- Performance Evaluation and Modeling in Heterogeneous Networking Environments
- Cross-system and Cross-layer Optimization tools

Papers describing current research and practice are solicited. Survey, tutorial, industry experience, and case study papers are all welcome.

IMPORTANT DATES

Deadline for submissions: **1 October 2006**
Notification of acceptance: 1 February 2007
Publication: July-August 2007

SUBMISSION GUIDELINES

Electronic submission, in PDF format, to the guest editor (email address given below) is highly encouraged. If electronic submission is not possible, please send three copies by regular mail to the guest editor.

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Further information on the journal, including author guidelines, are available at the journal homepage:

http://www.interscience.wiley.com/journal/networkmanagement