

CALL FOR PAPERS

Special Issue of the International Journal on Network Management (IJNM) on

Advances in Management of Multimedia Services

Publication: July 2015

Scope of the Special Issue

In recent years, we observe several important trends in the delivery of multimedia services: (i) increase of video bandwidth, necessitating content placement, prioritization, scheduling, and cloud-assisted streaming (ii) increased importance of Quality of Experience (QoE) for the end user, (iii) complex multimedia consumption patterns (interactive multiple screen applications, non-linear TV content consumption over-the-top streaming), (iv) increased mobile video consumption (e.g. on smart phones, tablets) over several wireless technologies, and (v) increased interest in adaptive streaming, where client software determines the desired quality level for segmented content.

These trends pose interesting challenges for the efficient management of these multimedia services and applications. The traditional approach of management through a set of Quality of Services parameters (e.g. packet loss, delay, jitter) is no longer sufficient: the quality as perceived by the end users -the Quality of Experience (QoE)- should be taken into account as well. For this special issue, we welcome submissions addressing these challenges (e.g. in the areas listed below) and presenting novel research or experimentation results.

Contributions to the following topics are of specific interest, but are not limited to:

• Optimized multimedia network management	• Cognitive adaptive streaming approaches
• Advanced network control for multimedia delivery	• Content delivery to Networked video walls
• Advanced content placement	• In-network synchronization
• Cooperative caching	• Next generation TV delivery to multiple screens
• Prediction-based caching	• Context-aware user-centric media delivery
• Definition of QoE: methods and tools	• Efficient mobile media delivery
• Objective & subjective QoE assessment	• Multimedia delivery over advanced wireless technologies
• New objective & subjective methods and algorithms	• Multimedia service management in smart cities
• Network diagnostics, tracing, troubleshooting for multimedia service delivery	• Self-organization techniques for the management of multimedia services
• Dynamic resource management for mobile services	• Experimental facilities for QoE evaluation of algorithms and services
• Adaptive video streaming in Over-The-Top and IPTV networks	• Streaming aware video encoding
• HTTP Adaptive Streaming for mobile environments	• QoE oriented coding for multimedia streaming

Submission Guidelines

Authors should submit their papers in PDF format only to <http://mc.manuscriptcentral.com/nem>

Paper submissions should not exceed 20 pages (double-space). Author instructions are available at

[http://onlinelibrary.wiley.com/journal/10.1002/\(ISSN\)1099-1190/homepage/ForAuthors.html](http://onlinelibrary.wiley.com/journal/10.1002/(ISSN)1099-1190/homepage/ForAuthors.html)

and the respective LaTeX template can be found at

[http://onlinelibrary.wiley.com/journal/10.1002/\(ISSN\)1099-1190/homepage/latex_class_file.htm](http://onlinelibrary.wiley.com/journal/10.1002/(ISSN)1099-1190/homepage/latex_class_file.htm)

All submissions will be peer-reviewed. In case of acceptance, the final and camera-ready version has to take into account comments of reviewers and needs to follow the template's requirements.

Important Deadlines

Submission Deadline: November 1, 2014

Notification of Acceptance: February 1, 2015

Final Version: April 1, 2015

Publication: July 1, 2015

Submissions in PDF format only to

<http://mc.manuscriptcentral.com/nem>

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