

2009 NEM Summit “Towards Future Media Internet”

28-30 September 2009 in Saint-Malo, France

– Call for Papers –

The NEM Summit, now in its 2nd year, is organised by the NEM Initiative – the Networked Electronic Media European Technology Platform – under the aegis of the European Commission (DG INFSO).

Building upon the success of the first NEM Summit in 2008, the 2009 NEM Summit will be a major event in the NEM and ICT fields. It will present cutting-edge technical papers supported by an exhibition featuring live demonstrations. Visitors will be able to network and share information and views on R&D status and perspectives, to identify future trends, and to discuss opportunities for research collaboration.

Conference Focus

On-going technological developments in media distribution are enabling an unprecedented number of innovative applications, empowering the role of the end-user and fostering the creation of new business initiatives. Electronic media technologies are enabling new generations of media devices and services, seamlessly conveyed over ever-increasingly intelligent media transportation networks. Thanks to the emergence of flexible content representation and rendering technologies, eApplications at large, supported by secure and trustworthy authentication and payment services, will be available everywhere, any time and on every device.

The retrieval of «My preferred Content» will be made easy by the rapid adoption of multimedia search utilities that will unleash the power of identifying objects by AV multimedia keys. The relevance of the results will be improved even more, thanks to the context-awareness capabilities of terminals. The same system will allow the user to easily share his experiences and creativity with a broad community. The multi-modality of rich and interactive media content will greatly improve user experience, including people with disabilities, through immersive and more natural use of all human senses: the user becomes an integral part of the multi-media experience, while the terminal device itself vanishes.

After the success of the first NEM Summit in 2008, the 2009 NEM Summit will feature a selected number of keynote speakers who will provide insights into the latest findings and trends in the domain of Networked Electronic Media. The NEM Summit will allow researchers and research consortia to increase the visibility of their work by submitting top-level technical papers to the event. This will be complemented by a special session focussed on strategic aspects and roadmapping of multimedia applications. Additionally, the Summit will include a forum where latest innovations in the NEM field will be illustrated.

Addressed Topics

Papers addressing the general area of networked electronic media are welcome. To help those proposing papers, a more detailed – but non-exhaustive – list of possible topics is given below. For more information about the expected topics, refer to the content of the NEM Strategic Research Agenda at <http://www.nem-initiative.org>.

Proposals will be reviewed by a world-class, finely tuned Technical Committee selected from academic and industrial players. The authors of the best papers submitted will be invited to present their results during the high quality “topic” sessions, while additional opportunities will be made available for others during the poster sessions.

Topics to be addressed by papers to be submitted to NEM Summit 2009, addressing various issues related to the Future Media Internet, are grouped in five areas. Only **original scientific and technical work** will be considered for presentation at NEM Summit 2009 and publication in the Summit proceedings. In addition, focused Summit sessions and publications are planned to cover the following **general topics**:

- Visions and strategic papers related to the NEM area
- Business aspects of NEM sector

While submitting the papers for NEM Summit 2009, authors are asked to indicate if the submission addresses the scientific and technical Summit track or one of the general topics listed above.

The topics of interest for scientific and technical papers include, but are not limited to, the following:

Distributed Media Applications

- Integrated multi-content communications, integration of classical and new media applications
- Creation or adaptation of content dedicated to specific user groups (personalised applications, social networks, knowledge sharing...)
- Digital cinema and immersive media environments
- 3D Media, high dynamic range and high resolution video, and spatial audio
- Tele-gaming, - learning, Interactive and multimodal applications
- Applications for sensor networks, ambient services
- Open software/tools for integration of multimedia communications applications (open gaming software, API for MM services, etc.)

Electronic Media Content

- Rich media content, professional and non-professional content creation
- Open and standardised tools for content creation, storage, and provision
- Interoperability of content formats, standard formats & access rules
- Content representation and rendering
- Content storage, indexing, and metadata, including search and selection engines for multimedia content
- Content personalisation (e.g. profession, geographic, and time dependent) and context awareness

Future Media Delivery Networks and Network Services

- Autonomous networking and communications architectures, including dynamic network management
- Multidimensional network interoperability
- Quality of Service and Quality of Experience in future networks
- New architecture paradigms for future multimedia applications (3D, virtual reality, etc.)
- Future media internet engineering
- Media transport - content aware networks and network aware services
- Home & small office networks, universal seamless service provisioning

User Devices and Terminals

- Integrated, scalable, and modular multimedia devices for home, portable and mobile devices
- Auto-configuration and auto-maintenance of devices and terminals
- Residential and home/small office gateways
- Application programming interfaces for new media devices and terminals
- Advanced user interfaces allowing natural interaction with the future media internet

NEM Enabling Technologies

- Digital rights management, security, authorisation, and authentication
- Content adaptation (coding, compression, etc.) for particular devices/ terminals and communications networks and services
- Displays (2D, 3D), imaging, and human language technologies
- Software and fast computing for solving complex autonomous functions and algorithms
- Cross-layer and cross-technology network planning and system optimisation
- Enhanced communication protocols & routing algorithms for end-to-end QoS
- Dynamic network control, re/configuration, and autonomous network management, including security of network elements
- New security, privacy and trust paradigms for media consumption

Important dates:

- **Paper submission deadline: 18 May 2009**
- Notification of acceptance: 28 July 2009
- Camera ready papers by 7 September 2009

Paper template and access to the **submission tool**, as well as further information about NEM Summit 2009, are available at the Summit website (www.nem-summit.eu) and NEM Initiative website (www.nem-initiative.org).