



# **Summary Report on Dissemination Activities**

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## **1. Introduction**

One of the goals of the Joint Programme on Spreading Excellence (JPSE) consists of spreading the technological and scientific achievements of PetaMedia to the widest possible audience of all social and scientific backgrounds. The JPSE work package started in month 7 of the NoE (September 2008), and this report is to give an overview of the dissemination activities in the months 7 to 13 of the network. PetaMedia-related activities in the initial phase (months 1 to 6) are also included.

## **2. General Dissemination**

### **2.1. PetaMedia Website**

The website (D8.1 was due in month 2) was set up with a delay of 2 months and has been revised several times since. The delay of the website setup was due to problems with an external provider. As this happened during the initial 6-month phase of the project, the delay did not have a severe impact on other tasks, nor on the NoE as a whole. PetaMedia's web appearance, however, received serious criticism at the meeting of the External Advisory Board in January 2009. Consequently, efforts are currently being made to improve the website in terms of both completeness and quality.

### **2.2. Newsletter**

In January 2009, the first PetaMedia newsletter was released, which is also available from the website. The second newsletter is due in June.

## **3. Academic Dissemination**

### **3.1. Publications**

#### **3.1.1. Publications of Months 1 to 13**

##### **Refereed conference papers**

N. Neubauer, K. Obermayer, "Tag Spam Creates Large Non-Giant Connected Components", in *Proceedings of the Fifth International Workshop on Adversarial Information Retrieval on the Web*, Madrid, Spain, April 2009.

D. Morrison, S. Marchand-Maillet, E. Bruno, "Modelling long-term relevance feedback," *ECIR Workshop on Information Retrieval over Social Networks*, Toulouse, France, April 2009.

F. De Simone, F. Dufaux, T. Ebrahimi, C. Delogu, V. Baroncini, "A subjective study of the influence of color information on visual quality assessment of high resolution pictures," *International Workshop on Video Processing and Quality Metrics for Consumer Electronics (VPQM'09)*, Scottsdale, Arizona, USA, January 2009.

A. Nijholt, "Girlfriends and Strawberry Jam: Tagging Memories, Experiences, and Events for Future Retrieval", in *Proceedings 11th International Symposium on Social Communication*, Santiago de Cuba, January 19-23, 2009.

M. Soleymani, G. Chanel, J. Kierkels, T. Pun, "Affective characterization of movie scenes based on multimedia content analysis and user's physiological emotional responses," *IEEE International Symposium on Multimedia (ISM'09)*, Berkeley, California, USA, December 2008, pp. 228-235.

Ronald Glasberg, Sebastian Schmiedeke, Hüseyin Oğuz, Pascal Kelm, Thomas Sikora, "Real-time detection of sport in MPEG-2 sequences using high-level AV-descriptors and SVM", in: *3rd International Conference on Digital Information Management (ICDIM 2008)*, 13-16 Nov. 2008

N. Ramzan, E. Izquierdo, "Efficient Scalable Video Transmission Based On Two-dimensional Error Protection Scheme," in *Proc. 15th IEEE International Conference on Image Processing (ICIP)*, San Diego, California, USA, Oct. 2008.

M. Soleymani, G. Chanel, J. Kierkels, T. Pun, "Affective ranking of movie scenes using physiological signals and content analysis," in *ACM Multimedia 2008, Workshop on Many Faces of Multimedia Semantics (MS'08)*, Vancouver, BC, Canada, October 2008, pp. 32-39.

N. Neubauer, K. Obermayer, "Predicting Tag Spam Examining Cooccurrences, Network Structures and URL Components", in *Proceedings of ECML PKDD Discovery Challenge (RSDC'08), Workshop at 18th Europ. Conf. on Machine Learning (ECML'08) / 11th Europ. Conf. on Principles and Practice of Knowledge Discovery in Databases (PKDD'08)*, 2008.

### **Other conferences**

J. M. Kierkels, T. Pun, "Towards detection of interest during movie scenes," *2008 PetaMedia Workshop on Implicit, Human-Centered Tagging (HCT)*, Queen Mary University London, London, UK, September 2008.

M. Soleymani, G. Chanel, J. Kierkels, T. Pun, "Valence-arousal representation of movie scenes based on multimedia content analysis and user's physiological emotional responses," *2008 PetaMedia Workshop on Implicit, Human-Centered Tagging (HCT)*, Queen Mary University London, London, UK, September 2008.

### **3.1.2. Publications to Appear**

#### **Book chapters**

D. Morrison, E. Bruno, S. Marchand-Maillet, "Capturing the semantics of user interaction: A review and case study," in *Emergent Web Intelligence*, Springer (to appear).

## Refereed journals

M. Soleymani, G. Chanel, J. Kierkels, T. Pun, "Affective characterization of movie scenes based on content analysis and physiological changes", *International Journal on Semantic Computing*. (submitted, February 2009)

G. Chanel, J. Kierkels, M. Soleymani, T. Pun, "Short-term emotion assessment in a recall paradigm", *International Journal of Human-Computer Studies*. (submitted, June 2008; revised, January 2009)

Naeem Ramzan, Toni Zgaljic, Ebroul Izquierdo, "An Efficient Optimisation Scheme for Scalable Surveillance Centric Video Communications", accepted in *ELSEVIER Journal of Signal Processing: Image Communication*, 2009.

## Accepted conference papers

J.-S. Lee, F. De Simone, T. Ebrahimi, "Video coding based on audio-visual attention," *IEEE International Conference on Multimedia and Expo (ICME'09)*, Cancun, Mexico, June 2009.

J. Kierkels, M. Soleymani, T. Pun, "Queries and tags in affect-based multimedia retrieval," *IEEE International Conference on Multimedia and Expo (ICME'09) - Special Session on Implicit Tagging*, Cancun, Mexico, June 2009.

E. Bruno, M. Von Wyl, S. Marchand-Maillet, "Large-scale cross-modal indexing and preference-based retrieval for annotated image data," *IEEE International Conference on Multimedia and Expo (ICME'09) - Special Session on Challenges in Large-Scale Image Retrieval*, Cancun, Mexico, June 2009.

N. Neubauer, K. Obermayer, "Hyperincident components of tagging networks", in *Proceedings of HyperText 2009*, June 2009.

P. Vajda, F. Dufaux, T. Ha Minh, T. Ebrahimi, "Graph-based approach for 3D object duplicate detection," *International Workshop on Image Analysis for Multimedia Interactive Services (WIAMIS'09)*, London, UK, May 2009.

E. Kurutepe, Z. Zhao, J. Ostermann, T. Sikora, "Resilient Streaming of Scalable Video over P2P Networks", Packet Video Workshop 2009, Seattle, USA, May 2009

## Submitted conference papers

M. Soleymani, J. Kierkels, G. Chanel, T. Pun, "A Bayesian framework for video affective representation," *International Conference on Image and Video Retrieval (CIVR'09)*, Island of Santorini, Greece, July 2009.

## 3.2. Exposure in Committees or Conferences

At the **Summer School on Multimedia Semantics (SSMS'08)**, held at the Mediterranean Agronomic Institute of Chania, Greece, from 1 to 5 September 2008, several PetaMedia

participants from QMUL, EPFL, and TUB presented their work in the poster sessions; an introductory poster on PetaMedia was also presented.

On 5 September 2008, the **PetaMedia Workshop on Implicit Human-Centred Tagging (HCT)**, organized by QMUL, was held in London. A keynote talk by Anton Nijholt from University of Twente (Netherlands) was followed by eight oral presentations and a discussion.

The 1st **ICIP Workshop on Multimedia Information Retrieval** on 12 October 2008, organized by Ebroul Izquierdo and Alan Hanjalic, offered six invited talks (one of which by Inald Lagendijk), oral and poster presentations, and a panel discussion, and received considerable attention.

During the first PetaMedia Yearly Technology Integration Meeting (PYTIM) in Berlin, a **workshop on peer-to-peer technology** was held on 21 October 2008. Lecturers were Dave Hales and Riccardo Petrocco (TUD), Wolfgang Müller (EML Research, Germany), and Dominik Benz (University of Kassel, Germany).

On 9 and 10 December 2008, Ebroul Izquierdo (QMUL) and Stevan Rudinac (TUD) represented PetaMedia on the meeting of the **Future Internet Assembly** in Madrid, where representatives of 87 European projects discussed current and future research activities.

#### **ECIR Workshop in Information Retrieval over Social Networks**

April 6, 2009, Toulouse, France (<http://ecir09.irit.fr/access.php>)

Stéphane Marchand-Maillet (UniGE), Arjen de Vries (TU Delft) and Mor Naaman (Stanford) have organised the Workshop in Information Retrieval over Social Networks 2009. The workshop is focused over the theme of PetaMedia and has been organised with the support of PetaMedia. A contribution from the *Viper* group at UniGE is included in the programme.

PetaMedia organizes a special session “**People, Pixels, Peers: Interactive Content in Social Networks**” at WIAMIS 2009, to be held in London from 6 to 8 May. Five submissions were accepted for oral presentation:

1. Stéphane Marchand-Maillet, E. Szekely, Eric Bruno, “Optimising strategies for the exploration of social networks and associated data collections”
2. Zhijie Zhao, Jörn Ostermann, Hexin Chen, “Multiple Description Scalable Coding for Video Streaming”
3. Pascal Kelm, Sebastian Schmiedeke, Thomas Sikora, “Feature-based Video Key Frame Extraction for Low Quality Video Sequences”
4. Stevan Rudinac, Martha Larson, Alan Hanjalic, “Exploiting Visual Reranking to Improve Pseudo-Relevance Feedback”
5. Giuseppe Passino, Ioannis Patras, Ebroul Izquierdo, “Image Semantic Labelling via Heterogeneous Low-level Descriptors Integration in a Conditional Random Field”

#### **First International Workshop on Quality of Multimedia Experience (QoMEx'09)**

July 29-31, 2009, San Diego, California, USA (<http://www.qomex.org>)

PetaMedia is one of the two technical sponsors of the First International Workshop on Quality of Multimedia Experience 2009 along with the IEEE. Touradj Ebrahimi (EPFL) is one of the two general Co-Chairs. Ebroul Izquierdo (QMUL), Thomas Sikora (TUB), Inald Lagendijk (TUD) and Frédéric Dufaux (EPFL) are also participating as members of the technical committee.