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Introduction

PetaMedia has now entered its last year. The impact of the NoE, however, is intended to last beyond the project lifetime—the Virtual Centre of Excellence (VCE) will continue to boost research, education, and development in the field of the PetaMedia triple synergy.

The PetaMedia NoE has successfully accomplished a number of events and participations, e. g. the third Technology Integration Meeting, the MediaEval workshop, and several activities at the ACM Multimedia conference. Currently, the VCE is being planned with emphasis on securing the initial phase. Further activities include planning and specification of the field trials and organization of the next S3MR summer school and a special session at ICMR 2011.

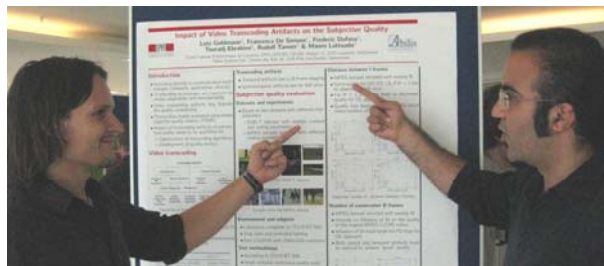
This newsletter reports PetaMedia activities of the past six months as well as upcoming events and recent publications and gives a short overview of the VCE. General information about the NoE can be found on the last page of the newsletter; for more information, including public documents, please refer to the PetaMedia website

<http://www.petamedia.eu>

Kai Clüver

Chronology

21 - 23 June 2010 - QoMEX 2010



The 2nd IEEE International Workshop on Quality of Multimedia Experience, which was held in Trondheim, Norway, brought together leading professionals and scientists and featured oral presentations, exhibits, panels, and poster sessions and provided information about the latest developments and future trends in the field of multimedia quality and user experience. Loretta Anania (EU project officer) and Touradj Ebrahimi (EPFL) were members of the organizing committee, and the technical programme committee included PetaMedia EAB member Fernando Pereira (IST, Lisbon), Frédéric Dufaux (EPFL), Ebroul Izquierdo (QMUL), and Inald Lagendijk (TUD). Lutz Goldmann and Francesca De Simone (EPFL) presented their paper on *Impact of Video Transcoding Artifacts on the Subjective Quality*.

<http://www.qomex.org/>

23 July 2010 - SIGIR Workshop Award

The 33rd Annual ACM SIGIR Conference, co-chaired by Stéphane Marchand-Maillet, was held in Geneva from 19 to 23 July 2010. The programme included a number of keynote talks, technical sessions, tutorials, and workshops. At the Workshop on *Crowdsourcing for Search Evaluation*, Mohammad Soleymani (U Geneva) and Martha Larson (TUD) won the workshop's runner-up award from Bing for their paper "Crowdsourcing for Affective Annotation of Video: Development of a Viewer-reported Boredom Corpus"

30 Aug - 3 Sept 2010 - SSMS'10

The 5th Summer School on Multimedia Semantics was held at the Centrum voor Wiskunde en Informatica (Centre for Mathematics and Computer Science, CWI) in Amsterdam, jointly organized by CWI and University of Amsterdam. The advisory board included Ebroul Izquierdo (QMUL) and Steffen Staab (U Koblenz-Landau). Several members of PetaMedia were among the lecturers: Lynda Hardman (CWI)—who was also involved in the organization of the event—, Raphaël Troncy (EURECOM, France), Joemon Jose (U Glasgow), and Alan Hanjalic (TUD). PetaMedia awarded five travel grants for PhD students.

<http://www.smart-society.net/ssms10/>

6 Sept 2010 - New PetaMedia Website

The Website of the NoE was relaunched after an extensive redesign. This new site will reflect the achievements of PetaMedia and its developments during the last year of the project. After that, it will serve as a basis for the Virtual Learning Centre and Virtual Centre of Excellence.

<http://www.petamedia.eu/>



Most of the second day was dedicated to presentation and discussion of the field trials that are currently being prepared. Before the meeting was closed for the day, PetaMedia EAB members Fernando Pereira (IST Lisbon) and Tsuhan Chen (Cornell Univ.) gave valuable feedback and commented on the progress of the NoE. On the morning of the last day, the network steering board discussed the planning of the Virtual Centre of Excellence (VCE). After that there was a plenary discussion on the VCE.

15 - 17 Sept 2010 - 3rd PYTIM



The third (and last) PetaMedia Yearly Technology Integration Meeting (PYTIM), at the same time the sixth plenary meeting of the NoE, took place in Berlin at TUB. The meeting started on Wednesday afternoon with a demo and poster session where ongoing work in exploratory and integrative research projects (ERPs and IRPs) were presented. The day closed with a dinner at a restaurant situated beneath the old Berlin inner-city railway viaducts.



27 - 29 Sept 2010 - ICT Event



The ICT Event in Brussels hosted a number of networking sessions "designed to facilitate con-

tacts between researchers and innovators, engineers and investors from all fields of digital innovation". PetaMedia was present at the exhibition with a stand and two demonstrators from the SpudTV field trials. Our brain-computer-interface-based arousal and valence estimation system from music videos and related personal music video playlist generator was presented to a wide audience ranging from EU commissioners to high-school students. The reaction was very positive as Pien Rijnink (TUD), Ashkan Yazdani (EPFL), and Engin Kurutepe (TUB) explained the exhibits and answered questions about their work.

http://ec.europa.eu/information_society/events/ict/2010/index_en.htm

30 Sept 2010 - Recsys Workshop Awards



At the *Challenge on Context-aware Movie Recommendation (CAMRa 2010)*, held within the 4th ACM Conference on Recommender Systems (Recsys 2010) in Barcelona, Yue Shi, Martha Larson, and Alan Hanjalić (TUD) won the Overall Winner Award and the Mood Track Winner Award for their work "Mining Mood-Specific Movie Similarity with Matrix Factorization for Context-Aware Recommendation".

13 - 15 Oct 2010 - NEM Summit



The 2010 NEM Summit *Towards Future Media Internet* was held at the Hesperia Tower Hotel in Barcelona. At the exhibition conjoined with the summit, PetaMedia presented recent research results and plans for field trials and the VCE. Besides the exhibition, several PetaMedia representatives were also involved in the technical programme of the summit. Jong-Seok Lee (EPFL)

attended to present a paper on "Audio-Visual Asynchrony Detection in Multimedia Content" in a lecture session. QMUL, represented by Naem Ramzan, Qianni Zhang, and Krishna Chandramouli, organized a workshop and also ran an exhibition booth dealing with the new 3DLife NoE.

<http://nem-summit.eu/>

24 Oct 2010 - MediaEval Workshop



The 2010 workshop of the MediaEval benchmarking initiative was held at Santa Croce in Fossabanda, a former convent in Pisa, Italy. During the workshop, the results of the tasks and benchmarks carried out since June were presented.



Four tasks had been offered that placed emphasis on speech, language, and context aspects of video. These four tasks were two versions of the Tagging Task (professional version and wild wild web version), the Glacing or Geo-Tagging Task (co-sponsored by PetaMedia and Glocal), and the Affect Task (boredom detection). Participants could make use of spoken, visual, and audio content as well as accompanying metadata.

The full-day workshop, with 30 participants from 3 continents, started with the opening talk by Martha Larson and Gareth Jones and continued with the presentations of the 11 teams who have participated in this year's initiative. The workshop closed with guest speakers who gave an outlook to MediaEval 2011.



Individual participants of the MediaEval workshop were commended for outstanding, forward looking work. Pascal Kelm, Sebastian Schmiedeke (TUB),

and Mohammad Soleymani (U Genève) received a distinctive mention award certificate for their use of multimodal features. Christian Wartena (Novay) was congratulated for the outstanding results achieved by his approach to the “Tagging Task Professional”.

As a special guest, filmmaker Bill Bowles attended the workshop, listened to the findings of the participants, and made a trailer video in the style of his travelogue episodes, telling the story of the MediaEval benchmarking initiative in his own words. The video is intended to arouse people’s interest and encourage them to participate in MediaEval 2011. The trailer video is now accessible on YouTube:

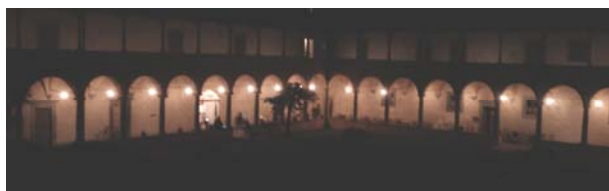
<http://www.youtube.com/watch?v=z1bjXwxkgBs>



MediaEval 2011 will be organized with sponsorship from Petamedia. The task offering in 2011 will be finalized on the basis of participants’ interest, assessed, as last year, via a survey. At this time, it is anticipated that a tagging task and a placing task will be run. It is also anticipated to offer an additional task involving ad-hoc video retrieval and one involving violence detection. Anyone interested is invited follow the website for additional information to appear at the beginning of 2011 or contact the organizers for information on the current status of plans.

The MediaEval benchmarking initiative is sponsored by Petamedia. The working notes of this year’s workshop are available on the website.

<http://www.multimediaeval.org/>



25 - 29 Oct 2010 - ACM Multimedia

The ACM Multimedia 2010 international conference, held in Florence, Italy, offered a large variety of scientific and technical sessions with keynote speeches, oral, poster, and video presentations, technical demonstrations, and exhibits, as well as “discussion rooms”, symposiums, tutorials, and panels to an audience of scientists and practitioners. Several PetaMedia-related people were involved in the organization of either the conference or conjoined workshops (see below), or contributed to the technical programme.

PetaMedia EAB member Shih-Fu Chang (Columbia U) was one of two general chairmen; Touradj Ebrahimi (EPFL) served as full paper programme chairman for the applications track. He was also one of the panelists in the panel session *The Use of Non-Conversational Means for Media Content Analysis and Understanding*. Among others, Alan Hanjalić (TUD) served as a member of the technical programme committee.



Jong-Seok Lee (EPFL) presented a paper jointly written by the team of the IRP “P2P streaming”, entitled *Subjective Evaluation of Scalable Video Coding for Content Distribution*. The

paper deals with the subjective quality evaluation of scalable video coding with the aim of providing general guidelines for adaptive multimedia content delivery using scalable video coding.



Péter Vajda (EPFL), selected as a finalist for the Multimedia Grand Challenge, gave a presentation on *Social Game Epitome versus Automatic Visual Analysis*, which introduced a mobile game (called Epitome) for photo album summarization. The video used in his presentation is available at

<http://www.youtube.com/watch?v=oNP0VUQuFHQ>.



The technical details of the proposed game were presented by Ivan Ivanov (EPFL) at the Workshop on *Connected Multimedia*, which was held in conjunction with the conference.

Martha Larson and Alan Hanjalić (TUD) co-organized and co-presented a tutorial on *Advanced Multimedia Retrieval*. Topics included novel search techniques, overall usefulness of search systems, challenges in video search, or speech/language-based systems.

<http://www.acmmm10.org/>

29 Oct 2010 - SAPMIA Workshop



The International Workshop on Social, Adaptive, and Personalized Multimedia Interaction and Access (SAPMIA 2010), co-organized by Naem

Ramzan (QMUL), was held in conjunction with ACM Multimedia 2010. The workshop focused on the development of new adaptation and personalization approaches from which users of multimedia can benefit. Touradj Ebrahimi (EPFL) gave the keynote talk with a tutorial on *QoE Issues in P2P Video Streaming*.

<http://ir.ii.uam.es/sapmia2010/>

29 Oct 2010 - SSCS 2010 Workshop



Also held within ACM Multimedia 2010 in Florence, the 4th Workshop on Searching Spontaneous Conversational Speech (SSCS 2010) was co-organized by, among others, Martha Larson (TUD), Roeland Ordelman (U Twente, Sound & Vision, Netherlands), and Wessel Kraaij (TNO, Radboud University Nijmegen, Netherlands). The SSCS 2010 workshop was devoted to presentation and discussion of recent research results concerning advances and innovation in the areas of spoken content retrieval and multimedia search that makes use of automatic speech recognition technology.



Papers were presented about techniques for speech retrieval, speaker role recognition, spoken term detection and concept detection. Invited speakers addressed challenges for the future of spoken content retrieval, including interview data, multimedia archives and the Spoken Web. The demonstrations were a highlight of the workshop. These were first introduced in a boaster session and then presented to workshop participants in an interactive session.

<http://www.searchingspeech.org/>

29 Oct 2010 - SMVC Workshop

Another workshop held in conjunction with ACM Multimedia 2010 was co-organized by Qianni Zhang (QMUL), viz. the International Workshop on Surreal Media and Virtual Cloning (SMVC), co-chaired by Ebroul Izquierdo (QMUL). The

workshop aimed to present and discuss key research issues related to the generation of surreal media and 3D cooperative virtual worlds.

<http://acmmm10-smvc.eecs.qmul.ac.uk/>

8 Nov 2010 - Qualinet Kickoff Meeting



The COST Action IC1003, European Network on Quality of Experience in Multimedia Systems and Services (Qualinet), officially started on 8 November 2010 with a kickoff meeting in Brussels. During the meeting, Touradj Ebrahimi (EPFL) was elected as the chairman of the consortium, and Andrew Perkis (NTNU, Norway) as its vice-chairman. In addition, Sebastian Möller (TUB), Patrick Le Callet (U Nantes), Peter Schelkens (VUB Brussels), Christian Timmerer (U Klagenfurt), and Fernando Pereira (IST Lisbon) were elected by the management committee as leaders of Qualinet working groups. The action aims at establishing a strong network on quality of experience with participation from both academia and industry for developing methodologies to subjectively and objectively measure the impact in terms of quality of future multimedia products and services.

http://www.cost.esf.org/domains_actions/ict/Actions/qualinet

Virtual Centre of Excellence

The planning of the PetaMedia Virtual Centre of Excellence has taken on momentum after the discussions at the Berlin PYTIM and the issue of deliverable D3.2 ("Report on the Viability of a Virtual Centre of Excellence...") in October.

PetaMedia Virtual Centre of Excellence (VCE) will be an open organization that aims to maximize the impact of academic and company research results in the field of social media retrieval with a focus on the triple synergy approach. Tangible results encompass on-line and recorded web content access demonstrations, software tools, media and social data sets, and recorded lectures and key notes. The VCE will bring together supply and demand for (small) research and tooling-oriented social media access projects in academia and companies.

PetaMedia VCE is an open organization which will seek legal status as a registered association in due time. After a funded bootstrapping phase, the cen-

tre will be self-sustained; the income will be generated by membership fees and summer school and conference surplus. Currently, the VCE is seeking support for setting up the portal and benchmarks through the recently founded Knowledge and Innovation Community (KIC) EIT ICTLabs. Nominated by the European Institute of Innovation and Technology (EIT), the KIC ICTLabs (<http://www.eitictlabs.eu/>) includes partners from both academia and industry in the five “prime nodes” Berlin, Eindhoven, Helsinki, Paris, and Stockholm as well as associate partners from other European cities. Sponsoring by ICTLabs would give a real boost to the VCE, not only in terms of funding but also with respect to the outreach to a large number of well-known industries and universities.

Farewell



After working at the heart and soul of the PetaMedia Network of Excellence for three years, Pien Rijnink (TUD) is going to leave the project in December. The PetaMedia community would like to thank Pien

for her dedicated work and collegiality. As she moves and connects up within other social structures beyond PetaMedia, we'd like to remind her: don't “dis-a-peer” completely.

Upcoming Events

29 - 30 Nov 2010 - Concertation Meeting

The 6th FP7 Concertation Meeting of the EU Networked Media Systems Unit will be held at the European Commission premises in Brussels. The meeting aims to bring together ongoing FP7 projects, facilitate exchange of results and achievements, and build consensus. The Unit's projects are organized in four clusters: 3D Immersive Interactive Media (3DIIM), Future Media Networks (FMN), Media Search (MS), and User Centric Media (UCM). PetaMedia will be represented by Ebroul Izquierdo and Naeem Ramzan (QMUL), as well as by Martha Larson (TUD), who will give a presentation on the results of the MediaEval initiative and the planning of the PetaMedia field trials. http://ec.europa.eu/information_society/events/net-media/concertations-fp7/index_en.htm

7 - 9 March 2011 - 7th Plenary Meeting

The seventh plenary meeting of PetaMedia is planned to take place at the University of Economics (VŠE) in Prague.

17 - 20 April 2011 - ICMR Special Session

The MediaEval benchmarking initiative will host a special session on *Automatic Tagging and Geo-Tagging in Video Collections and Communities* at ACM ICMR 2011 in Trento, Italy (cf. call for papers below). Currently, the special session proposal has been approved and the authors are working hard on their papers, which will need to pass the general review process.

27 June - 1 July 2011 - 2nd Summer School

The second Summer School on Social Media Retrieval (S3MR 2011) will be held at the Marmara Hotel in Antalya, Turkey. The event will start with a dinner on Sunday, 26 June, and end on Friday afternoon. Further information will be circulated soon.

Calls for Papers

13 - 15 April 2011 - WIAMIS

Paper submission deadline: 10 December 2010

The 12th International Workshop on Image Analysis for Multimedia Image Analysis (WIAMIS), co-sponsored by PetaMedia, will be held at Delft University of Technology (TUD). PetaMedia participants Alessandro Vinciarelli (Idiap, Switzerland) and Martha Larson (TUD) act as special session chairpersons. More information can be found on the workshop website.

<http://www.wiamis2011.org/>

17 - 20 April 2011 - ICMR

Paper submission deadline: 3 December 2010

The first ACM International Conference on Multimedia Retrieval (ICMR), which unites former ACM conferences CIVR and MIR, will take place in Trento, Italy. The conference organizing committee includes PetaMedia EAB member Ramesh Jain (UC Irvine), who is honorary chairman, and, among others, Alan Hanjalić (TUD) and Ioannis Patras (QMUL). The complete call for papers can be found at <http://www.icmr2011.org/>.

13 - 15 June 2011 - CBMI

Paper submission deadline: 14 January 2011

The 9th International Workshop on Content-Based Multimedia Indexing (CBMI) will be held at the Escuela Politécnica Superior of the Universidad Autónoma de Madrid, Spain. Ebroul Izquierdo (QMUL) and Thomas Sikora (TUB) are members of the workshop steering committee; Joemon Jose (U Glasgow) and PetaMedia EAB member Paulo Villegas (Telefónica) act as technical programme co-chairmen. Additional information, including the call for papers, can be found on the website.

<http://www-vpu.eps.uam.es/cbmi2011/>

7 - 9 Sept 2011 - QoMEX

Paper submission deadline: 14 March 2011

The 3rd International Workshop on Quality of Multimedia Experience will be held in Mechelen, Belgium. It will bring together leading professionals and scientists who are developing methods for evaluating multimedia quality and user experience. The workshop steering committee includes Loretta Anania (EU project officer) and Touradj Ebrahimi (EPFL).

<http://www.qomex2011.org/>

Special Issue on Advances in Video Streaming for P2P Networks

Manuscript submission deadline: 31 January 2011

The "Journal of Signal Processing: Image Communication" plans to publish a Special Issue on *Advances in Video Streaming for P2P Networks* in 2011. Ebroul Izquierdo and Naeem Ramzan (QMUL) are guest editors of this special issue.

http://www.elsevier.com/wps/find/journaldescription.cws_home/505651/description#description

Special Issue on Object and Event Classification in Large-Scale Video Collections

Manuscript submission deadline: 13 January 2011

IEEE Transactions on Multimedia plan to publish a Special Issue on *Object and Event Classification in Large-Scale Video Collections*. Alan Hanjalic (TUD) is one of the guest editors of this special issue that will focus on problems of handling object and event detection in large video data collections. The editors solicit surveys and technical papers tailored to large-scale settings that address a wide range of topics like, e. g., classification, summarization, benchmark setting, and extrapolation of known concepts to large-scale use cases. Publication is scheduled for February 2012.

<http://www.ieee.org/organizations/society/tmm/>

Publications

Recent PetaMedia Publications

S. Rudinac, M. Larson, A. Hanjalic, "Visual Concept-Based Selection of Query Expansions for Spoken Content Retrieval", *ACM SIGIR 2010*, Geneva, July 2010.

M. Soleymani, M. Larson, "Crowdsourcing for Affective Annotation of Video: Development of a Viewer-reported Boredom Corpus", *Proc. ACM SIGIR Workshop on Crowdsourcing for Search Evaluation (CSE 2010)*, Geneva, July 2010.

S. Vrochidis, I. Kompatsiaris, I. Patras, "Optimizing Visual Search with Implicit User Feedback in Interactive Video Retrieval", *ACM Int. Conf. on Image and Video Retrieval (CIVR 2010)*, Xi'an, China, July 2010.

Z. Zhao, J. Ostermann, "Error Concealment in the Network Abstraction Layer for Medium Grain Scalability of SVC", *VCIP 2010*, Huang Shan, An Hui, China, July 2010.

I. Ivanov, P. Vajda, J.-S. Lee, L. Goldmann, T. Ebrahimi, "Geotag Propagation in Social Networks Based on User Trust Model", *Multimedia Tools and Applications (Springer), Special Issue on Social Mining and Search*, July 2010.

P. Vajda, I. Ivanov, L. Goldmann, J.-S. Lee, T. Ebrahimi, "Robust Duplicate Detection of 2D and 3D Objects", *Int. Journal of Multimedia Data Engineering and Management (IJMDEM)*, vol. 1, no. 3, July-Sept 2010.

P. Vajda, I. Ivanov, J.-S. Lee, L. Goldmann, T. Ebrahimi, "Propagation of Geotags Based on Object Duplicate Detection", *SPIE Int. Conf. Optics and Photonics, Applications of Digital Image Processing XXXIII*, vol. 7798, San Diego CA, USA, Aug 2010.

F. De Simone, L. Goldmann, J.-S. Lee, T. Ebrahimi, V. Baroncini, "Subjective evaluation of next-generation video compression algorithms: a case study", *SPIE Int. Conf. Optics and Photonics, Applications of Digital Image Processing XXXIII*, vol. 7798, San Diego CA, USA, Aug 2010.

F. Kaiser, T. Sikora, "Music Structure Discovery in Popular Music using Non-negative Matrix Factorization", *11th International Society for Music Information Retrieval Conference (ISMIR 2010)*, Utrecht, Netherlands, Aug 2010.

S. Asioli, N. Ramzan, E. Izquierdo, "A Novel Technique for Efficient Peer-to-peer Scalable Video Transmission", *European Signal Processing Conference (EUSIPCO)*, Aalborg, Denmark, Aug. 2010.

C. Wartena, "Automatic classification of social tags: a case study", *ECDL 2010*, Glasgow, Sept 2010.

M. Tok, A. Glantz, M. G. Arvanitidou, A. Krutz, T. Sikora, "Compressed Domain Global Motion Estimation using the Helmholtz Tradeoff Estimator", *ICIP 2010*, Hong Kong, Sept 2010.

A. Glantz, A. Krutz, T. Sikora, “Global Motion Temporal Filtering for In-loop Deblocking”, *ICIP 2010*, Hong Kong, Sept 2010.

L. Goldmann, J.-S. Lee, T. Ebrahimi, “Temporal synchronization in stereoscopic video: influence on quality of experience and automatic asynchrony detection”, *ICIP 2010*, Hong Kong, Sept 2010.

M. Akram, E. Izquierdo, “Fast Multiframe Motion Estimation for Surveillance Videos”, *ICIP 2010*, Hong Kong, Sept 2010.

Y. Shi, M. Larson, A. Hanjalic, “List-wise learning to rank with matrix factorization for collaborative filtering”, *4th ACM Conf. on Recommender Systems (RecSys’10)*, Barcelona, Sept 2010.

Y. Shi, M. Larson, A. Hanjalic, “Mining mood-specific movie similarity with matrix factorization for context-aware recommendation”, *Workshop on Context-Aware Movie Recommendation (CAMRa’10)*, Barcelona, Sept 2010.

D. Schneider, T. Mertens, M. Larson, J. Kohler, “Contextual Verification for Open Vocabulary Spoken Term Detection”, *Interspeech 2010*, Makuhari, Japan, Sept 2010.

B. Jochems, M. Larson, R. Ordelman, R. Poppe, K. P. Truong, “Towards Affective State Modeling in Narrative and Conversational Settings”, *Interspeech 2010*, Makuhari, Japan, Sept 2010.

I. Ivanov, P. Vajda, J.-S. Lee, T. Ebrahimi, “Epitome—A Social Game for Photo Album Summarization”, *ACM Int. Conf. Multimedia (ACM MM 2010)*, *Workshop on Connected Multimedia (CMM’10)*, Florence, Italy, Oct 2010.

P. Vajda, I. Ivanov, L. Goldmann, T. Ebrahimi, “Social Game Epitome versus Automatic Visual Analysis”, *Multimedia Grand Challenge 2010 at ACM Int. Conf. Multimedia (ACM MM 2010)*, Florence, Italy, Oct 2010.

J.-S. Lee, F. De Simone, N. Ramzan, Z. Zhao, E. Kurutepe, T. Sikora, J. Ostermann, E. Izquierdo, T. Ebrahimi, “Subjective evaluation of scalable video coding for content distribution”, *ACM Int. Conf. Multimedia (ACM MM 2010)*, Florence, Italy, Oct 2010.

Y. Shi, M. Larson, A. Hanjalic, “Connecting with the collective: self-contained reranking for collaborative recommendation”, *ACM Int. Conf. Multimedia (ACM MM 2010)*, *Workshop on Connected Multimedia (CMM’10)*, Florence, Italy, Oct 2010.

S. N. Haji Mirza, E. Izquierdo, “Finding the User’s Interest Level from Their Eyes”, *ACM Int. Conf. Multimedia (ACM MM 2010)*, *Workshop on Social, Adaptive, and Personalized Multimedia Interaction and Access (SAPMIA)*, Florence, Italy, Oct 2010.

F. Kaiser, T. Sikora, “Détection de structure en musique par décomposition non-négative des matrices de similarités”, *Journées Jeunes Chercheurs en Audition, Acoustique musicale et Signal audio (JJCAAS)*, Paris, Nov 2010.

S. Koelstra, M. Pantic, I. Patras, “A Dynamic Texture based Approach to Recognition of Facial Actions and their Temporal Models”, *IEEE Trans. Pattern Analysis and Machine Intelligence*, vol. 32, no. 11, Nov 2010.

M. Larson, E. Newman, G. J. F. Jones, “Overview of Video-CLEF 2009: New perspectives on speech-based multimedia content enrichment”, in C. Peters et al. (eds.), *Multilingual Information Access Evaluation, vol. II, Multimedia Experiments*, Springer, 2010.

M. Larson, B. Jochems, E. Smits, R. Ordelman, “Exploiting Speech Recognition Transcripts for Narrative Peak Detection in Short-Form Documentaries”, in C. Peters et al. (eds.), *Multilingual Information Access Evaluation, vol. II, Multimedia Experiments*, Springer, 2010.

Publications to appear

P. Vajda, I. Ivanov, L. Goldmann, T. Ebrahimi, “Omnidirectional object duplicate detection”, *IEEE Digital Signal Processing Workshop (DSP/SPE 2011)*, Sedona AZ, USA, Jan 2011.

J.-S. Lee, F. De Simone, T. Ebrahimi, “Efficient video coding based on audio-visual focus of attention”, *Journal of Visual Communication and Image Representation*.

D. Morrison, E. Bruno, S. Marchand-Maillet, “Capturing the semantics of user interaction: A review and case study”, book chapter in *Emergent Web Intelligence*, Springer.

PetaMedia (“Peer-to-Peer Tagged Media”) is a Network of Excellence funded by the European Commission’s Seventh Framework Programme. Four partners form the core of PetaMedia, each representing a national network:

- Delft University of Technology (TUD), Netherlands,
- Ecole Polytechnique Fédérale de Lausanne (EPFL), Switzerland,
- Queen Mary, University of London (QMUL), UK,
- Technische Universität Berlin (TUB), Germany.

Further, the PetaMedia NoE includes partners from the four national networks as well as European partners from outside the four countries. TUD coordinates the network.

The goal of the PetaMedia NoE is to bring together the research of four national networks in the Netherlands, Switzerland, UK, and Germany in the area of multimedia content analysis (MCA) and social peer-to-peer networks (SP2P) and eventually to establish a European Virtual Centre of Excellence.

The collective research that integrates the four national networks is directed towards the PetaMedia *triple synergy*, i. e. the synergetic combination of

- user-based collaborative tagging,
 - social and peer-to-peer network structures, and
 - multimedia content analysis,
- and towards identification and exploration of potentials and limitations of combined tagging, MCA and SP2P concepts.

Basic information:

Collaborative Project: Network of Excellence

Project acronym: PetaMedia

Full title: Peer-to-Peer Tagged Media

EU FP7 contract no.: 216444

Co-ordinator: Prof. dr. ir. R. L. Lagendijk (TUD)

Start date: 1 March 2008

Duration: 42 months

Further information: <http://www.petamedia.eu>

E-mail: info@petamedia.eu

Editorial deadline: 25 November 2010

Editors: Mohammad Soleymani (U Genève), Jong-Seok Lee (EPFL), Yue Shi, Cynthia Liem, Christoph Kofler, Martha Larson (TUD), Naeem Ramzan (QMUL), Sebastian Schmiedeke, Pascal Kelm, Engin Kurutepe, Kai Clüver (TUB)

Cover photo by Pascal Kelm (TUB): Santa Croce in Fossabanda, Pisa, Italy