



# The 18<sup>th</sup> International Conference on MultiMedia Modeling

Klagenfurt, Austria  
January 4-6, 2012

## CONFERENCE GUIDE





Klaus Schöffmann

## A Warm Welcome From This Year's Hosts!

We are happy to welcome you to MMM 2012, the 18th International Conference on MultiMedia Modeling, in Klagenfurt, Austria.

The MMM 2012 is held at Lindner Seepark Hotel Congress & Spa, which is located in the immediate vicinity of our university.

MMM 2012 features a comprehensive program including three keynote talks, ten oral presentation sessions, a poster session, a demo session, four special sessions, and the Video Browser Showdown, which was an interactive video search competition and a new event in the history of the MMM conference.

The 142 submissions from authors of 32 countries included a large number of high-quality papers in multimedia content analysis, multimedia signal processing and communications, multimedia applications and services.

We sincerely hope that the carefully crafted program, the scientific discussions and your additional activities in Klagenfurt and it's surroundings, most importantly the lovely Lake Wörthersee and the mountains, will make your MMM 2012 participation worthwhile and a memorable experience.



Laszlo Böszörményi

### TUESDAY, JANUARY 3, 2012

18:00	Registration Opens (Lindner Seepark Hotel, Foyer)
19:30	Welcome Reception (Lindner Seepark Hotel, Room Alpe & Adria)

### WEDNESDAY, JANUARY 4, 2012

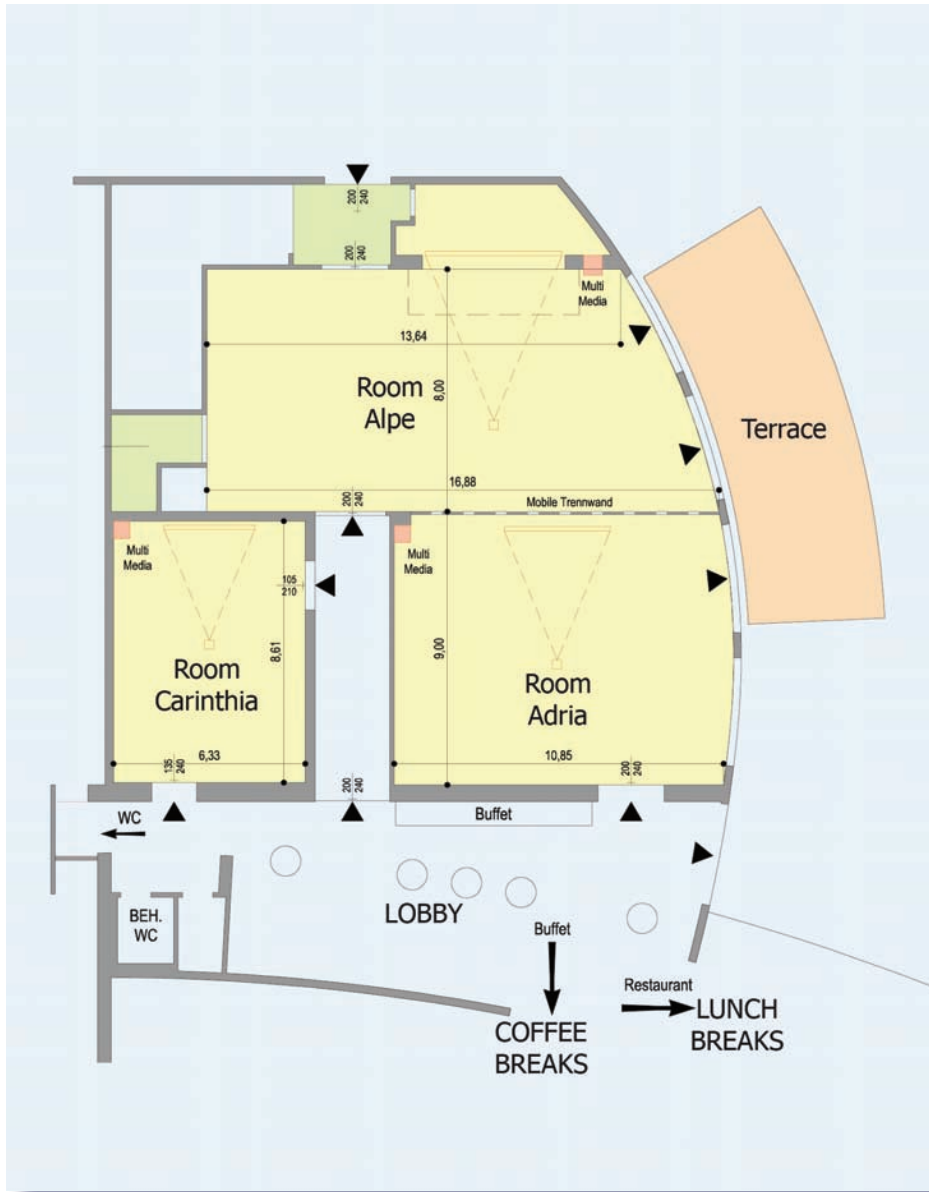
08:00 - 08:45	Registration
08:45 - 09:00	Opening: Klaus Schöffmann & Laszlo Böszörményi
09:00 - 10:00	Keynote 1: Alan Hanjalic
10:00 - 10:30	Coffee Break
10:30 - 11:45	Oral Session 1: Search I Oral Session 2: Event and Activity I
11:45 - 13:00	Lunch
13:00 - 14:30	Poster Session
14:30 - 15:00	Coffee Break
15:00 - 17:05	Oral Session 3: Annotation I Oral Session 4: Mining & Mobile MM Applications
17:10 - 17:30	Mini-Keynote 1: Harald Kosch

### THURSDAY, JANUARY 5, 2012

09:00 - 10:00	Keynote 2: John R. Smith
10:00 - 10:30	Coffee Break
10:30 - 12:10	Oral Session 5: Search II Oral Session 6: Summarization and Visualization
12:10 - 13:30	Lunch
13:30 - 14:30	Demo Session
14:30 - 15:00	Coffee Break
15:00 - 17:05	Oral Session 7: Annotation & Interactive MM Applications Oral Session 8: Event & Activity II Oral Session 9: Visualization and Advanced Multimedia Systems
17:10 - 17:30	Mini-Keynote 2: Christian Breitender (CANCELLED)
19:00	Meeting of the ACM European Chapter Conference Banquet (Schloss Mageregg)

### FRIDAY, JANUARY 6, 2012

09:00 - 10:00	Keynote 3: Ralf Steinmetz
10:00 - 10:30	Coffee Break
10:30 - 12:10	Oral Session 10: Annotation II Special Session: Interactive and Immersive Entertainment & Communication
12:10 - 13:30	Lunch
13:30 - 14:30	Video Browser Showdown
14:30 - 15:00	Coffee Break
15:00 - 17:05	Special Session: MM Preservation: How to Ensure MM Access over Time? Special Session: Multi-modal and Cross-modal Search Special Session: Video Surveillance
17:10	Closing



VENUE MAP



WEDNESDAY, JANUARY 4, 2012

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08:00 - 08:45

**Registration (Foyer)**Opening - Klaus Schöffmann and Laszlo Böszörményi (**Room: Alpe @ Adria**)

08:45 - 09:00

09:00 - 10:00

**Keynote 1: Alan Hanjalic - Chair: Hermann Hellwagner**A new gap to bridge: Where to go next in social media retrieval?  
(**Room: Alpe @ Adria**)

10:00 - 10:30

**Coffee Break**

10:30 - 11:45

**Oral Session 1: Search I - Chair: Werner Bailer - Room Alpe**Kong-Wah Wan, Ah-Hwee Tan, Joo-Hwee Lim and Liang-Tien Chia  
Topic Based Query Suggestions for Video Search

Miriam Redi and Bernard Merialdo

A Multimedia Retrieval Framework Based on Automatic  
Graded Relevance Judgments

Xiaohua Zhai, Yuxin Peng and Jianguo Xiao

Effective Heterogeneous Similarity Measure with Nearest Neighbors  
for Cross-Media Retrieval

10:30 - 11:45

**Oral Session 2: Event and Activity I - Chair: Jenny Benois-Pineau - Room Adria**Zhenzhong Lan, Lei Bao, Shouu-I Yu, Wei Liu and Alexander G. Hauptmann  
Double Fusion for Multimedia Event Detection

Ehsan Younessian and Deepu Rajan

Multi-modal Solution for Unconstrained News Story Retrieval

Ardhendu Behera, Anthony G Cohn and David C Hogg

Workflow Activity Monitoring using Dynamics of Pair-wise Qualitative  
Spatial Relations

11:45 - 13:00

**Lunch**

13:00 - 14:30

**Poster Session - Chair: Bernard Merialdo - Room: Alpe @ Adria**

Robert Sorschag

How to Select and Customize Object Recognition Approaches for an  
Application?Savvas A. Chatzichristofis, Konstantinos Zagoris, Yiannis Boutalis and  
Avi Arampatzis

A Fuzzy Rank-Based Late Fusion Method for Image Retrieval

Rui Hu, Stuart James and John Collomosse

Annotated Free-hand Sketches for Video Retrieval using Object Semantics  
and Motion

Lei Huang, Tian Xia, Yongdong Zhang and Shouxun Lin

Finding Suits in Images of People

Nipun Pande, Mayank Jain, Dhawal Kapil and Prithwijiit Guha

The Video Face Book

Rémi Vieux, Jenny Benois-Pineau and Jean Philippe Domenger

Content Based Image Retrieval using Bag-Of-Regions

Bahjat Safadi, Stéphane Ayache and Georges Quénot

Active Cleaning for Video Corpus Annotation

Anh-Phuong Ta, Mathieu Ben and Guillaume Gravier

Improving Cluster Selection and Event Modeling in Unsupervised Mining for  
Automatic Audiovisual Video Structuring

Toshihiko Yamasaki and Tomoaki Matsunami

Pedestrian Attribute Analysis Using a Top-View Camera in a Public Space

Rafael Rodríguez-Sánchez, José Luis Martínez, Gerado Fernández-Escribano,  
José Luis Sánchez and José Manuel Claver

A Fast GPU-Based Motion Estimation Algorithm for H.264/AVC

Huibo Zhong, Sha Shen, Yibo Fan and Xiaoyang Zeng

A Low Complexity Macroblock Layer Rate Control Scheme Base on  
Weighted-Window for H.264 EncoderAlberto Corrales-Garcia, Jose Luis Martínez, Gerardo Fernandez-Escribano  
and Francisco Jose Quiles

Forward Wyner-Ziv Fast Video Decoding Using Multicore Processors

Rosario Garrido-Cantos, Jan De Cock, Sebastiaan Van Leuven, Pedro Cuenca,  
Antonio Garrido and Rik Van de WalleFast Mode Decision Algorithm for H.264/AVC-to-SVC Transcoding  
with Temporal ScalabilityCamille Simon, Rainer Schütze, Frank Boochs and Franck S. Marzani  
Asserting the Precise Position of 3D and Multispectral Acquisition Systems  
for Multisensor Registration Applied to Cultural Heritage AnalysisYin-Tzu Lin, Shuen-Huei Guan, Yuan-Chang Yao, Wen-Huang Cheng  
and Ja-Ling Wu

U-Drumwave: An Interactive Performance System for Drumming

WEDNESDAY, JANUARY 4, 2012

THURSDAY, JANUARY 5, 2012

14:30 - 15:00

**Coffee Break**

15:00 - 17:05

**Oral Session 3: Annotation I - Chair: Michiel Hildebrand - Room Alpe**

Hichem Bannour and Céline Hudelot  
Building Semantic Hierarchies Faithful to Image Semantics

Daniel Kuettel, Matthieu Guillaumin and Vittorio Ferrari  
Combining Image-level and Segment-level Models for Automatic Annotation

Svebor Karaman, Jenny Benois-Pineau, Rémi Mégret and Aurélie Bugeau  
Multi-Layer Local Graph Words for Object Recognition

Markus Mühlhng, Ralph Ewerth, Jun Zhou and Bernd Freisleben  
Multimodal Video Concept Detection via Bag of Auditory Words  
and Multiple Kernel Learning

Bogdan Ionescu, Klaus Seyerlehner, Christoph Rasche, Constantin Vertan  
and Patrick Lambert  
Content-based Video Description for Automatic Video Genre Categorization

15:00 - 17:05

**Oral Session 4: Mining @ Mobile Multimedia Applications - Chair: Cathal Gurrin - Room Adria**

Alberto Corrales-Garcia, Jose Luis Martínez, Gerardo Fernandez-Escribano  
and Francisco Jose Quiles  
Scalable Mobile-to-Mobile Video Communications Based on an Improved  
WZ-to-SVC Transcoder

Hazem Wannous, Vladislavs Dovgalecs, Rémi Mégret and Mohamed Daoudi  
Place Recognition via 3D Modeling for Personal Activity Lifelog using  
Wearable Camera

Francesco Cricri, Igor D.D. Curcio, Sujeet Mate, Kostadin Dabov and Moncef  
Gabbouj  
Sensor-Based Analysis of User Generated Video for Multi-Camera Video  
Remixing

Hung-Wei Lin, Min-Chun Hu and Ja-Ling Wu  
Gait-Based Action Recognition via Accelerated Minimum Incremental  
Coding Length Classifier

Wei Yang, Masahiro Toyoura and Xiaoyang Mao  
Hairstyle Suggestion Using Statistical Learning

17:10 - 17:30

**Mini-Keynote 1: Harald Kosch - Chair: Laszlo Böszörményi**

Multimedia Standards - a Big Mess?

**Room: Alpe @ Adria**

09:00 - 10:00

**Keynote 2: John R. Smith - Chair: Christian Timmerer**

Mining Multimedia Data for Meaning

**Room: Alpe @ Adria**

10:00 - 10:30

**Coffee Break**

10:30 - 12:10

**Oral Session 5: Search II - Chair: Savvas Chatzichristofis - Room Alpe**

Mario Döller, Florian Stegmaier, Simone Jans and Harald Kosch  
TempoM<sup>2</sup>: A Multi Feature Index Structure for Temporal Video Search

Christian Vilsmaier, Rolf Karp, Mario Döller, Harald Kosch and Lionel Brunie  
Towards Automatic Detection of CBIRs Configuration

Christian Beecks and Thomas Seidl  
On Stability of Adaptive Similarity Measures for Content-Based Image  
Retrieval

Andrei Bursuc, Titus Zaharia and Françoise Prêteux  
Retrieval of Multiple Instances of Objects in Videos

10:30 - 12:10

**Oral Session 6: Summarization and Visualization - Chair: Frank Hopfgartner - Room Adria**

Yingbo Li and Bernard Merialdo  
Video Summarization Based on Balanced AV-MMR

Werner Bailer  
Sequence Kernels for Clustering and Visualizing Near Duplicate  
Video Segments

Martin Halvey, David Hannah, Graham Wilson and Stephen A. Brewster  
Investigating Gesture and Pressure Interaction with a 3D Display

Masahiro Toyoura, Mamoru Kunihiro and Xiaoyang Mao  
Film Comic Reflecting Camera-Works

12:10 - 13:30

**Lunch**

THURSDAY, JANUARY 5, 2012

THURSDAY, JANUARY 5, 2012

13:30 - 14:30

**Demo Session - Chair: Frank Hopfgartner - Room Carinthia**

Charles-Frederik Hollemeersch, Bart Pieters, Aljosha Demeulemeester, Peter Lambert and Rik Van de Walle  
Real-Time Visualizations of Gigapixel Texture Data Sets Using HTML5

Markus Wautl, Benjamin Rainer, Christian Timmerer and Hermann Hellwagner  
Enhancing the User Experience with the Sensory Effect Media Player and AmbientLib

Lijuan Zhou, Hongfei Lin, and Cathal Gurrin  
EMIR: A Novel Music Retrieval System Incorporating Analysis of User Emotion

Manfred del Fabro and Laszlo Böszörményi  
Summarization and Presentation of Real-Life Events Using Community-Contributed Content

Marcus Thaler, Rene Kaiser, Werner Bailer and Andreas Kriechbaum  
Tracking Persons in Ultra-HD Panoramic Video

Zhengwei Qiu, Cathal Gurrin, Aiden R. Doherty and Alan F. Smeaton  
A Real-Time Life Experience Logging Tool

14:30 - 15:00

**Coffee Break**

15:00 - 17:05

**Oral Session 7: Annotation @ Interactive Multimedia Applications - Chair: Mathias Lux - Room Alpe**

Radosław Mantiuk, Michał Kowalik, Adam Nowosielski and Bartosz Bazyluk  
Do-It-Yourself Eye Tracker: Low-Cost Pupil-Based Eye Tracker for Computer Graphics Applications

Longfei Zhang, Yue Gao, Rongrong Ji, Alexander Hauptmann, Boaz Super and Gangyi Ding  
Symbiotic Black-Box Tracker

Tina Walber, Ansgar Scherp and Steffen Staab  
Identifying Objects in Images from Analyzing the Users' Gaze Movements for Provided Tags

Xiaojian Zhao, Jin Yuan, Richang Hong, Meng Wang, Zhoujun Li and Tat-Seng Chua  
On Video Recommendation Over Social Network

Taiga Yoshida, Go Irie, Takashi Satou, Akira Kojima and Suguru Higashino  
Improving Item Recommendation Based on Social Tag Ranking

15:00 - 15:50

**Oral Session 8: Event and Activity II - Chair: Klaus Schöffmann - Room Adria**

Claudiu Tanase and Bernard Merialdo  
Efficient Spatio-temporal Edge Descriptor

Maia Zaharieva and Christian Breiteneder  
Recurring Element Detection in Movies

15:50 - 17:05

**Oral Session 9: Visualization and Advanced Multimedia Systems - Chair: Oliver Schreer - Room Adria**

Harald Kosch and Andreas Wölfel  
Large-Scale Similarity-Based Join Processing in Multimedia Databases

Musab S. Al-Hadrusi and Nabil J. Sarhan  
Client-Driven Price Selection for Scalable Video Streaming with Advertisements

Kevin McGuinness, Kealan McCusker, Neil O'Hare and Noel E. O'Connor  
Efficient Storage and Decoding of SURF Feature Points

17:10 - 17:30

**Mini-Keynote 2: Christian Breiteneder - Chair: Klaus Schöffmann**  
Automated Analysis of Archive Films  
**CANCELLED!**

17:10 - 17:30

**Meeting of the ACM European Chapter - Room Carinthia**

19:00

**Conference Banquet (Schloss Mageregg)**

**Dinner Speech: Oge Marques**  
Adventures in human visual perception

**Buses will be available at Hotel Lindner's parking lot at 18.30 and at 18.45 in city center (Heiligengeistplatz)!**

More information is available on the page „Conference banquet“

FRIDAY, JANUARY 6, 2012

FRIDAY, JANUARY 6, 2012

09:00 - 10:00

**Keynote 3: Ralf Steinmetz - Chair: Laszlo Böszörményi**  
 Challenges in Serious Gaming as Emerging Multimedia Technology for Education, Training, Sports and Health  
**Room Alpe @ Adria**

10:00 - 10:30

**Coffee Break**

10:30 - 12:10

**Oral Session 10: Annotation II - Chair: Ansgar Scherp - Room Alpe**

Pere Obrador, Michele A. Saad, Poonam Suryanarayan and Nuria Oliver  
 Towards Category-Based Aesthetic Models of Photographs

Ehsan Younessian and Deepu Rajan  
 Scene Signatures for Unconstrained News Video Stories

Zhiguo Yang, Yuxin Peng and Jianguo Xiao  
 Visual Vocabulary Optimization with Spatial Context for Image Annotation and Classification

Xiaowei Ding, Yi Xu, Lei Deng and Xiaokang Yang  
 Colorization Using Quaternion Algebra with Automatic Scribble Generation

10:30 - 11:45

**Special Session: Interactive and Immersive Entertainment and Communication - Session Chair: Rene Kaiser - Room Adria**

YDanil Korchagin, Stefan Duffner, Petr Motlicek and Carl Scheffler  
 Multimodal Cue Detection Engine for Orchestrated Entertainment

Christian Weissig, Oliver Schreer, Peter Eisert and Peter Kauff  
 The Ultimate Immersive Experience: Panoramic 3D Video Acquisition

Rene Kaiser, Wolfgang Weiss and Gert Kienast  
 The FascinatE Production Scripting Engine

12:10 - 13:30

**Lunch**

13:30 - 14:30

**Video Browser Showdown - Chair: Alexander Hauptmann  
Room Alpe @ Adria**

Manfred del Fabro and Laszlo Böszörményi  
 AAU Video Browser: Non-Sequential Hierarchical Video Browsing Without Content Analysis

Jin Yuan, Huanbo Luan, Dejun Hou, Han Zhang, Yan-Tao Zheng, Zheng-Jun Zha, and Tat-Seng Chua  
 Video Browser Showdown by NUS

13:30 - 14:30

David Scott, Jinlin Guo, Hongyi Wang, Yang Yang, Frank Hopfgartner, and Cathal Gurrin  
 Clipboard: A Visual Search and Browsing Engine for Tablet and PC

Andrei Bursuc, Titus Zaharia, and Françoise Prêteux  
 OVIDIUS: a Web Platform for Video Browsing and Search

Carles Ventura, Manel Martos, Xavier Giró-i-Nieto, Verónica Vilaplana, and Ferran Marqués  
 Hierarchical Navigation and Visual Search for Video Keyframe Retrieval

Mario Taschwer  
 A Key-Frame-Oriented Video Browser

Werner Bailer, Wolfgang Weiss, Christian Schober, Georg Thallinger  
 A Video Browsing Tool for Content Management in Media Post-Production

Klaus Schöffmann, David Ahlström, Laszlo Böszörményi  
 Video Browsing with a 3D Thumbnail Ring Arranged by Color Similarity

14:30 - 15:00

**Coffee Break**

15:00 - 15:50

**Special Session: Multimedia Preservation: How to Ensure Multimedia Access over Time? - Chair: Harald Kosch - Room Alpe**

Michiel Hildebrand and Jacco van Ossenbruggen  
 Linking User-Generated Video Annotations to the Web of Data

Britta Meixner, Michael Ettengruber and Harald Kosch  
 Challenges in Storing Multimedia Data for the Future - an Overview

16:00 - 17:05

**Special Session: Multi-modal and Cross-modal Search - Chair: Apostolos Axenopoulos - Room Alpe**

Apostolos Axenopoulos, Stavroula Manolopoulou and Petros Daras  
 Optimizing Multimedia Retrieval using Multimodal Fusion and Relevance Feedback Techniques

Jonas Etzold, Arnaud Brousseau, Paul Grimm and Thomas Steiner  
 Context-aware Querying for Multimodal Search Engines

Wanxia Lin, Tong Lu and Feng Su  
 A Novel Multi-modal Integration and Propagation Model for Cross-Media Information Retrieval

FRIDAY, JANUARY 6, 2012

15:00 - 16:40

**Special Session: Video Surveillance - Chair: N.N. - Room Adria**

Wu Liu, Tian Xia, Ji Wan, Yongdong Zhang and Jintao Li  
RGB-D based Multi-Attribute People Search in Intelligent Visual Surveillance

Chun-Wei Hsieh, Fu-Jiang Fang, Guo-Jin Lin and Yu-Shi Wang  
Template Matching and Monte Carlo Markova Chain for People Counting under Occlusions

Duan-Yu Chen and Chia-Hsun Chen  
Visual-based Spatiotemporal Analysis for Nighttime Vehicle Braking Event Detection

Naeem Akhter  
Fusing Template and Point Information to Track Planes with Large Interframe Displacement

17:10

**Closing****Wednesday, January 4, 2012**

***A new gap to bridge:  
Where to go next in social media retrieval?***

Prof. Dr. Alan Hanjalic  
Associate Professor & Coordinator of the Delft Multimedia  
Information Retrieval Lab

**Abstract:**

Research in Multimedia Information Retrieval (MIR) aims at matching multimedia content and user needs and so at bringing image, audio and video content together with users. Users' expectations regarding multimedia content access in terms of semantically rich and personalized relevance criteria have always been high and have imposed high demands on the level of sophistication of MIR solutions. The potential to develop MIR technology that meets such high demands has rapidly grown over the past twenty years by building on intensive international research effort. This growth accelerated, however, with the increasing contextualization of images, video and music in rapidly expanding social networks that link distributed content, diverse metadata and users of various profiles and interests. It is clear that user demands regarding the sophistication of MIR technology have further grown in the social network context in view of new ways of interacting with multimedia content and with other people via and about this content. However, this new context has also brought vast new opportunities for improving the quality of MIR solutions. These opportunities lie in synergetic integrations of multidisciplinary scientific contributions and rich information resources found there. Revisiting MIR from the viewpoint of the social network context, using the approaches that are often jointly referred to as social media retrieval, can help the field not only resolve the problems that impeded its development in the past, but also address the new emerging demands. I will show how contextualizing the MIR in online networked communities of users can help us achieve a fundamental shift in the MIR grand challenge, from bridging the research-oriented semantic gap to bridging the much more important, user-oriented utility gap, that explicitly addresses the overall usefulness of a MIR system output for the user. I will highlight some of the opportunities in pursuing this new, utility-oriented MIR grand challenge.



Thursday, January 5, 2012

*Mining Multimedia Data for Meaning*

Dr. John R. Smith  
IBM T. J. Watson Research Center

Abstract:

The explosion of images, video and multimedia is creating a valuable source for insights. It can tell us about things happening in the world, give clues about a person's preferences or experiences, indicate places of interest in a new town, and even capture a rolling log of our history. But, as a non-traditional source for data mining, there are numerous challenges to be overcome in order to handle the volume, velocity and variety of multimedia data in practice. In this talk, we review several application areas across Web, social media, mobile and safety/security and show how they benefit from mining of multimedia data. We review novel approaches for modeling semantics and automatically classifying visual contents and demonstrate examples in the context of IBM Multimedia Analysis and Retrieval System (IMARS).



Friday, January 6, 2012

*Challenges in Serious Gaming as Emerging Multimedia Technology for Education, Training, Sports and Health*

Prof. Dr.-Ing. Ralf Steinmetz  
Professor in the Department of Electrical Engineering and Information Technology & in the Department of Computer Science at the Technische Universität Darmstadt

Abstract:

Digital computer games are very popular and successful, both as leisure activity and contemporary information and communication medium in the digital age, and as relevant economic factor and prospering market, not only in the creative industries. Games tackle a diversity of research aspects, e.g. Computer Graphics, AI, Storytelling, interfaces and sensors, authoring and production, usability and user experience or other ICT and multimedia technologies. Game technology and game techniques are broadly used by other application domains apart from pure entertainment as well.

The rather new field of Serious Games, games with an additional purpose other than mere entertainment, offers a variety of new challenges and new fields of research. In our opinion, the term Serious Games comprises games for education (in terms of learning and practice), training, sports, and health. The core idea of Serious Games is to use the motivation inherited in games for other purposes like learning, sports, rehabilitation exercises, or even advertisement or opinion forming. Prominent examples in the field of Serious Games (games 'more than fun') are games for health, persuasive games, advergaming or games for education and training, for instance in the form of multiplayer online games as tools to support collaborative learning settings. The combination of gaming technologies and gaming concepts with other research disciplines, technologies, methods and concepts results in a broad range of application domains. The resulting research areas are Authoring of Serious Games, Collaborative Learning using multiplayer Serious Games, Serious Games in Social Networks, and sensor technology for Serious Games for Sports & Health.

In this talk, we will review the various aspects and application areas of Serious Games and point out some of the grand challenges in the field of Serious Gaming.

Some of the core research topics of the Serious Games at the Technische Universität Darmstadt and the htc will be reviewed. StoryTec, an authoring environment for the creation of Serious Games for non-programmers, will be illustrated, as well as 3D multiplayer Serious Games for collaborative learning and team (leader) training. Furthermore, Serious Games for sports & health, especially for fall prevention, rehabilitation, and management of obesity will be outlined. Analysis and Retrieval System (IMARS).

**General Chairs**

Klaus Schoeffmann, Klagenfurt University, Austria  
 Bernard Merialdo, Eurecom, Sophia-Antipolis, France  
 Alexander Hauptmann, Carnegie Mellon University, USA

**Program Co-Chairs**

Chong-Wah Ngo, City University of Hong Kong  
 Yiannis Andreopoulos, UCL, London, UK  
 Christian Breiteneder, Vienna University of Technology, Austria

**Local Organization & Finance Chair**

Laszlo Böszörményi, Klagenfurt University, Austria

**Special Session Co-Chairs**

Mathias Lux, Klagenfurt University, Austria  
 Marco Bertini, University of Florence, Italy

**Demo Co-Chairs**

Cees Snoek, University of Amsterdam, Netherlands  
 Frank Hopfgartner, University of California, Berkeley, USA

**Publicity & Sponsorship Co-Chairs**

Tao Mei, Microsoft Research Asia, China  
 Christian Timmerer, Klagenfurt University, Austria

**Publication Co-Chairs**

Werner Bailer, Joanneum Research, Austria  
 Hermann Hellwagner, Klagenfurt University, Austria

**US Liaisons**

Oge Marques, Florida Atlantic University, USA  
 Ketan Mayer-Patel, UNC-Chapel Hill, USA

**Asian Liaison**

Tat-Seng Chua, National University of Singapore, Singapore  
 Tao Mei, Microsoft Research Asia, China

**European Liaison**

Cathal Gurrin, Dublin City University, Ireland  
 Harald Kosch, University of Passau, Germany

**Steering Committee**

Yi-Ping Phoebe Chen, La Trobe University, Australia  
 Tat-Seng Chua, National University of Singapore, Singapore  
 Toshiyasu L. Kunii, University of Tokyo, Japan  
 Wei-Ying Ma, Microsoft Research Asia, China  
 Nadia Magnenat-Thalmann, University of Geneva, Switzerland

**Conference Banquet  
Thursday, January 5, 2012**

The Conference Dinner will be held at „Schloss Mageregg“ - a château built in 1590 and originally surrounded by a moat, remains of which can still be seen on the east side. Redesigned in 1841 by the architect, Domenico Vechiarutti from Gemona.

The conference dinner will be on Thursday, January 5. Buses will pick up the participants at the conference venue (Hotel Lindner) and bring them back to the respective hotels after dinner.

**Buses will be available at Hotel Lindner's parking lot at 18.30 and at 18.45 in city center (Heiligengeistplatz)!**

**Dinner Speech: Oge Marques - Adventures in human visual perception**



You will surely enjoy the flavor of Austrian Empire's style and local specialties.

More information:  
[www.schloss-mageregg.at](http://www.schloss-mageregg.at)

Carinthia occupies a favoured geographical situation on the southern side of the Austrian Alps in the Alps-Adriatic region, so it is especially spoiled by the sun and enjoys a mild, yet snow-filled, winter climate. Klagenfurt is the capital of Carinthia and it is situated at the beautiful Lake Wörthersee – one of the largest and warmest alpine lakes in Europe – and has approx. 93.000 inhabitants.



Being a small city, with a Renaissance-style city center reflecting 800 years of history and with Italian influence, Klagenfurt is a pleasant place to live and work.

In winter time, Klagenfurt presents itself from its most charming side. The Christmas Market turns the old town into a romantic

Christmas dream. Sport enthusiasts can enjoy extraordinary luxury in winter: skiing and snowboarding right in town, at the “Schleppe Alm”, five minutes from the city centre; and once Lake Wörthersee freezes over, the largest natural ice-skating area in Europe is available for your enjoyment. Klagenfurt is not only a lively city, but also a very historical town: predominantly Italian master builders have determined the appearance of the historic old town. Discover magnificent Renaissance buildings, facades renovated true to the original style and shady arcaded inner courtyards on a stroll through the old town; see the beauty of the sacral buildings on a church walk; or visit one of the many museums, castles and galleries.



**Further Information:**

- Klagenfurt University: [www.aau.at](http://www.aau.at)
- Klagenfurt (city information): [www.klagenfurt.at](http://www.klagenfurt.at)
- Klagenfurt (tourist information): [www.klagenfurt-tourismus.at](http://www.klagenfurt-tourismus.at)
- Lake Wörthersee: [www.woerthersee.com](http://www.woerthersee.com)
- Carinthia: [www.kaernten.at](http://www.kaernten.at)

**Banks, Cash Points/ATMs**



Regular banking hours in Austria are 8:30 a.m. to 4:00 p.m., Monday to Friday. There are two banks within a 300 meter distance of the Seeparkhotel Lindner: “Sparkasse” and “Raiffeisen Landesbank”. These banks host cash points/ATMs.



**Post Office**

A post office is located at Universitätsstraße 92, next to the Mensa building.



**Pharmacy (“Apotheke”)**

The nearest pharmacy is also located close by, at Universitätsstraße 23, ten minutes walking distance east of the Seeparkhotel Lindner.



**Shopping**

Shops and stores are open Mon-Fri: 08:00 (or 09:00) - 18:00 (or 19:30); Sat: 08:00 (or 09:00) - 12:00 (or 17:00). They are closed on Sunday. Some shops also close for a one- or two-hour lunch break.

Klagenfurt has one big shopping center - „City Arkaden“ - it is located in the heart of Klagenfurt (Heuplatz 5). On three floors you will find special shops for fashion, sports, lifestyle, beauty, health, food, technology, hobbies and leisure. Numerous service companies complete the wide offer and attractive restaurants and catering businesses encourage guests to take a rest.

Tourist attractions are open seven days a week. Please visit the Websites indicated above for detailed touristic information. Credit cards are accepted in cities and tourist areas by many - but not by all - hotels, restaurants, shops and gas stations.

### Buses

Klagenfurt's public transportation system is made up of a network of buses; getting around the city is convenient, easily accessible and often provides beautiful views of the city! The nearest bus stop from conference hotel is the bus station „Unversitaetsstraße“. To get to the city centre from the hotel take the bus no. 10, 20 or no. 81.

The price for a 24 hours ticket is 4,30 € and for a single-trip 0,80 €.

### Taxies

Taxi stands are located in front of the arrival/departure halls of the Klagenfurt airport, next to the main railway station, as well as at some places in the city.

Taxis may also be ordered and pre-booked under the following telephone numbers:

„Taxi 31 111“	+43 (0) 463 311 11
„The Shuttle“	+43 (0) 664 341 33 08 or <a href="http://www.the-shuttle.at/english">www.the-shuttle.at/english</a>
„Taxi Klagenfurt“	+43 (0) 463 499 799 or <a href="http://www.taxi-klagenfurt.com">www.taxi-klagenfurt.com</a>
„Taxi Santner“	+43 (0) 463 511 661 or <a href="http://www.taxi-santner.com">www.taxi-santner.com</a>
„Lindwurm Taxi“	+43 (0) 676 441 90 77 or <a href="http://www.lindwurm-taxi.at">www.lindwurm-taxi.at</a>



Have you ever heard of “Kasnudeln”, “Ritschert” or “Gselchtes”? Well, these are just a few of the traditional culinary specialities from Carinthia, the recipes of which have been passed on and kept secret within families for generations. Start your culinary voyage of discovery through Klagenfurt!



Some places and restaurants well known to the organizers and in the city center are:

#### Bierhaus “Zum Augustin”

Pfarrhofgasse 2, Tel.: +43 (0) 463 513 992

In the city center, typical Austrian cuisine with daily changing specialities, moderate prices.

#### Restaurant Oscar

Sankt Veiter Ring 43, Tel.: +43 (0) 463 502 300

In the city center, fine and high-quality food.

#### Gasthaus Pumpe

Lidmanskyygasse 2, Tel.: +43 (0) 463 571 96

Typical austrian cuisine, one speciality is „Gulasch“ and a pint of beer!

Some places and restaurants well known to the organizers and close to conference venue are:

#### Maria Loretto

Lorettoweg 54, 9020 Klagenfurt Tel.: +43 (0) 463 24 4 65

One of Klagenfurt's best places for fine food and a wonderful view on the lake Wörthersee.

#### China Restaurant Chinesischer Garten

Villacher Straße 221, 9020 Klagenfurt, Tel.: +43 (0) 463 220 139

A little bit of Asia nearby conference hotel at moderate prices.

#### Osteria Café-Bar Panta Rhei

Universitätsstraße 25, 9020 Klagenfurt, Tel.: +43 (0) 676 842 537 100

Nice food and great wines make this young restaurant a frequented place in the evening.

#### Pizzeria Villa Lido

Universitätsstraße 33, 9020 Klagenfurt, Tel.: +43 (0) 463 250 88

For lovers of Italian food, this is the place to go.





Klagenfurt University has been future-oriented and dynamic from the day it was founded. Today it is Carinthia's leading educational and research institution. It opens its doors to the whole world and thrives on interculturality and people whose minds know no frontiers. In contrast to the mass universities, the structure and the manageable scale of the university have positive effects in many respects: on research and its organisation, on teaching operations and on internal administration. These benefits are compounded by the specific character of a genuine campus university. This compact structure is a considerable advantage for the organisation of student life (lecture halls, library, refectory, student dorm, etc.) and for cross-disciplinary research activities.



The Institute of Information Technology (ITEC) at Klagenfurt University encompasses the computer and communication technology aspects of the Informatics Department. ITEC is comprised of two research groups with two full professors and, currently, 25 scientific, technical and administrative staff. The institute's research focuses on distributed multimedia systems and multimedia communication.

Current teaching and research areas include:

- Distributed Multimedia Systems
- Communication Networks
- Multimedia Information Systems
- Operating Systems
- Computer Organization
- Distributed Systems
- Computer Games
- Compiler Construction

We are also active participants in several national and international research projects, ranging from fundamental research to application-oriented projects and direct cooperation with industry. In addition we often act as hosts for conferences and regularly publish in refereed international journals and conference proceedings.

More information is available at: [www.uni-klu.ac.at/tewi/inf/itec](http://www.uni-klu.ac.at/tewi/inf/itec)



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## Contact Us – We're here to help!

We would be pleased to provide you with any additional information about the MMM 2012 and we welcome your questions or comments!



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