



## Preliminary Program

Scheduled time per presentation (regular talk): 20 minutes + 5 minutes discussion

### Tuesday, January 3, 2012

18:00	Registration
19:30	Welcome Reception (at Lindner Seepark Hotel)

### Wednesday, January 4, 2012

	Room 1	Room 2
08:45-09:00	Opening	
09:00-10:00	Keynote 1: Dr. 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 Multimedia Applications
17:10-17:30	Mini-Keynote: Prof. Dr. Harald Kosch	

**Thursday, January 5, 2012**

	<b>Room 1</b>	<b>Room 2</b>
09:00-10:00	Keynote 2: Dr. 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 Multimedia Applications	Oral Session 8: Event and Activity II  Oral Session 9: Visualization and Advanced Multimedia Systems
19:00	Conference Banquet	

**Friday, January 6, 2012**

09:00-10:00	Keynote 3: Prof. Dr.-Ing. Ralf Steinmetz	
10:00-10:30	Coffee Break	
10:30-12:10	Oral Session 10: Annotation II	Special Session: Interactive and Immersive Entertainment and 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: Multimedia Preservation: How to Ensure Multimedia Access over Time?  Special Session: Multi-modal and Cross-modal Search	Special Session: Video Surveillance
17:10	Closing	

### Oral Session 1: Search I

Wednesday, January 4, 10:30-11:45

Session Chair: Werner Bailer

**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*

### Oral Session 2: Event and Activity I

Wednesday, January 4, 10:30-11:45

Session Chair: Jenny Benois-Pineau

**Zhenzhong Lan, Lei Bao, Shoou-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*

### Oral Session 3: Annotation I

Wednesday, January 4, 15:00-17:05

Session Chair: Michiel Hildebrand

**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 Mühlhling, 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.**

**Oral Session 4: Mining & Mobile Multimedia Applications**

Wednesday, January 4, 15:00-17:05

Session Chair: Cathal Gurrin

**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 Dvoglecs, 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*

**Oral Session 5: Search II**

Thursday, January 5, 10:30-12:10

Session Chair: Savvas Chatzichristofis

**Mario Dölller, 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 Dölller, 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 Francoise Prêteux**

*Retrieval of Multiple Instances of Objects in Videos*

## Oral Session 6: Summarization and Visualization

Thursday, January 5, 10:30-12:10

Session Chair: Frank Hopfgartner

**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*

## Oral Session 7: Annotation & Interactive Multimedia Applications

Thursday, January 5, 15:00-17:05

Session Chair: Mathias Lux

**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*

### Oral Session 8: Event and Activity II

Thursday, January 5, 15:00-15:50

Session Chair: Klaus Schöffmann

**Claudiu Tanase and Bernard Merialdo**

*Efficient Spatio-temporal Edge Descriptor*

**Maia Zaharieva and Christian Breiteneder**

*Recurring Element Detection in Movies*

### Oral Session 9: Visualization and Advanced Multimedia Systems

Thursday, January 5, 15:50-17:05

Session Chair: Oliver Schreer

**Harald Kosch and Andreas Wölfli**

*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*

### Oral Session 10: Annotation II

Friday, January 6, 10:30-12:10

Session Chair: Ansgar Scherp

**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*

## Poster Session

Wednesday, January 4, 13:00-14:30

Session Chair: Bernard Merialdo

### **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 Prithwijit 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, Gerardo 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 Encoder*

### **Alberto 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 Walle**

*Fast Mode Decision Algorithm for H.264/AVC-to-SVC Transcoding with Temporal Scalability*

**Camille 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 Analysis*

**Yin-Tzu Lin, Shuen-Huei Guan, Yuan-Chang Yao, Wen-Huang Cheng and Ja-Ling Wu**

*U-Drumwave: An Interactive Performance System for Drumming*

### Demo Session

Thursday, January 5, 13:30-14:30

Session Chair: Frank Hopfgartner

**Charles-Frederik Hollemeersch, Bart Pieters, Aljosh Demeulemeester, Peter Lambert and Rik Van de Walle**

*Real-Time Visualizations of Gigapixel Texture Data Sets Using HTML5*

**Markus Waltl, 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*

## Video Browser Showdown

Friday, January 6, 13:30-14:30

Session Chair: Alexander Hauptmann

**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*

**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 Francoise 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*

## Special Session: Interactive and Immersive Entertainment and Communication

Friday, January 6, 10:30-11:45

Session Chair: Rene Kaiser

**Danil 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*

### **Special Session: Multimedia Preservation: How to Ensure Multimedia Access over Time?**

Friday, January 6, 15:00-15:50

Session Chair: Harald Kosch

**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*

### **Special Session: Multi-modal and Cross-modal Search**

Friday, January 6, 15:50-17:05

Session Chair: Apostolos Axenopoulos

**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*

### **Special Session: Video Surveillance**

Friday, January 6, 15:00-16:40

Session Chair: Jun-Wei Hsieh

**Wu Liu, Tian Xia, Ji Wan, Yongdong Zhang and Jintao Li**

*RGB-D based Multi-Attribute People Search in Intelligent Visual Surveillance*

**Jun-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*