ACM Multimedia 2011

Scottsdale
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Nov. 28 - Dec. 1
2011

http://www.acmmm11.org
## CONTENTS

- Welcome from the General Co-Chairs 1
- Message from the Technical Program Chairs 3
- Message from the Workshop Chairs 5
- ACM Multimedia 2011 Conference Organization 7
- ACM Multimedia 2011 Program Committees 9
- Keynote Talks 17
- ACM Multimedia 2011 Program at a Glance 19
- ACM Multimedia 2011 Tutorials 23
- ACM Multimedia 2011 Main Conference Full Program Day 1 25
  - Keynote 1 & Awards 25
  - Poster Plenary Day 1 25
  - Oral Sessions Day 1 31
  - Open Source Software Competition 33
  - Workshops Day 1 35
  - Panel 1 38
  - Industrial Exhibit / Technical Demos 1 38
- ACM Multimedia 2011 Main Conference Full Program Day 2 43
  - Keynote 2 43
  - Oral Sessions Day 2 43
  - Multimedia Grand Challenge Finals 45
  - Workshops Day 2 47
  - Poster Plenary Day 2 52
  - Panel 2 58
  - Doctoral Symposium 58
  - SIGMM Business Meeting 60
- ACM Multimedia 2011 Main Conference Full Program Day 3 61
  - Keynote 3 61
## CONTENTS

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral Sessions Day 3</td>
<td>61</td>
</tr>
<tr>
<td>Workshops Day 3</td>
<td>64</td>
</tr>
<tr>
<td>Industrial Exhibit / Technical Demos 2</td>
<td>71</td>
</tr>
<tr>
<td>Poster Plenary Day 3</td>
<td>73</td>
</tr>
<tr>
<td>Industrial Panel</td>
<td>79</td>
</tr>
<tr>
<td>MM’11 Travel Awardees</td>
<td>81</td>
</tr>
<tr>
<td>Sponsors and Supporters</td>
<td>83</td>
</tr>
<tr>
<td>Notes</td>
<td>85</td>
</tr>
<tr>
<td>Floor Plan of Hotel</td>
<td>91</td>
</tr>
</tbody>
</table>
WELCOME FROM THE GENERAL CO-CHAIRS

We are delighted to welcome you, on behalf of the entire organizing committee, to the 19th ACM International Conference on Multimedia ACM Multimedia 2011 (MM’11), held between November 28th and December 1st, 2011, in Scottsdale, Arizona, USA.

ACM Multimedia (MM) is the flagship conference of the Special Interest Group on Multimedia (SIGMM), which profiles cutting-edge scientific developments and showcases innovative industrial multimedia technologies and applications. The conference aims to promote intellectual exchanges and interactions among scientists, engineers, students, multimedia users, and artists through various events, including keynote talks from leaders in the area, oral and poster sessions focused on research challenges and solutions, workshops in up-and-coming key areas of research, technical and industrial demonstrations of prototypes and commercial products, tutorials, research and industrial panels, doctoral symposium, mentoring events, scientific competitions (including an open source software and a multimedia grand challenge competition), and interactive art exhibits.

Our key motivation while organizing the MM’11 conference was to find innovative ways to design an “inclusive” conference program: lowering the barriers between various MM sub-communities, boosting the cross-fertilization of ideas among the contributors and attendees across the various MM events, and maximizing the return-on-investment for the MM’11 participants. Examples of this new approach include the following:

- New plenary poster sessions, where all contributors (i.e., authors of long and short research papers, of workshop papers, and contributors to all other MM’11 events) are invited to share poster versions of their contributions with the rest of the MM’11 community. These plenary poster sessions allow conference participants to get a quick idea of interesting things happening in the multiple parallel sessions they cannot clone themselves to attend!

- Workshops were aligned with the other MM’11 events, instead of being held on a separate “workshops day” where many workshop participants never got to know the main conference and vice-versa. Our aim was to integrate workshops (which were chosen, in the first place, to represent emerging topics that complement the areas covered by the main technical program) organically with the other conference events and encourage broader participation by registrants in all conference and workshop programs.

- These innovations aimed to eliminate barriers in the program had to be supported by corresponding innovations in the MM’11 registration policies. Thus, we have instituted an “all-in-one” registration fee structure, which covers attendance to all MM’11 events, including presentation and poster sessions, panels, demonstrations, tutorials, and workshops.

- By keeping the overall registration fee lower than recent years and by shaving one day off from the conference program, we also reduced the overall participation cost for most of the MM’11 attendees.

A travel grants program, generously supported by the National Science Foundation (NSF) and SIGMM, also helped us lower the barrier for participation for many students and, as of this writing, a full 30% of the registrants to MM’11 are students. We also have a number of mentorship activities, including women mentoring event, organized and sponsored by SIGMM, a Doctoral Symposium program, which (in addition to having regular panels and presentations as before) this year opened up its doors to all student authors who want to present posters at the event, a panel on “Job Opportunities and Career Perspective for Fresh Graduates of the Multimedia Community”, and a new “vis-a-vis
meeting with researchers” social event where graduate students will meet and exchange ideas and receive guidance with internationally recognized researchers in their research area.

Of course, apart from the above, MM’11 also continued with programs that proved to be extremely successful in the past. We have continued with the well-established and highly successful Open Source Software Competition, with special emphasis this year on instructional open source software designed for educational use in teaching multimedia-related courses at undergraduate or graduate level. Like the previous years, the Multimedia Grand Challenges competition attracted challenges from many leaders of the multimedia industry, including HP, Technicolor, Nokia, Yahoo, Huwei, and 3D Life, and proposals from all over the world. Similarly, this year’s industrial exhibits program, which complements the MM technical demonstrations program, will focus on cutting-edge research prototypes, including system and product demonstrations from many industrial leaders, such as IBM, FX Palo Alto Labs, Microsoft Research, Exalead, and Yacast. The panels program emphasizes opportunities and challenges faced by researchers, industry, and open-source communities in multimedia and thus covers timely topics, such as “Smart Games”, “Towards Synergy Between the Open Source and the Research Multimedia Communities”, and “Innovating the Multimedia Experience”.

We are enthused to report that MM’11 includes three exciting keynote talks by three industry and academic leaders in multimedia research: Alex Pentland, Head of the MIT Human Dynamics Lab, Genevieve Bell, Director of the Interaction and Experience Research at the Intel Labs, and Arnaud Robert, Senior Vice President of Technology at The Walt Disney Studios. Last, but certainly not the least, we are proud that MM’11 hosts the prestigious SIGMM Technical Achievement Award presentation to Prof Shih-Fu Chang (Columbia University) and his award acceptance speech.

We would like to acknowledge those who have contributed to the success of MM’11. First of all, we would like to thank all authors who submitted papers to the technical program, various workshops, and other events of MM’11. We also thank the authors of the accepted papers who will present their work in MM’11 and the panelists and keynote speakers who have accepted to participate in the conference to discuss current and future challenges in the field of multimedia and to propose innovative solutions. We are grateful to the members of the various program committees and external reviewers who have helped put together a high-quality program and would like acknowledge members of the various MM’11 organizing committees and many student volunteers for their invaluable help at every step of the process. We would like to thank the staff of ACM and Sheridan for their continuous support and the Conference Management Toolkit Team (CMT) at Microsoft for letting us use CMT for handling the submission and review workflows of MM’11. Finally, we would like to thank our sponsors (as of this writing), Google, IBM, Microsoft, FxPal, Technicolor, Qualcomm, Springer, Yahoo!, Arizona State University, and the University of Texas at Dallas, who have extended their generous support to MM’11. We would also like to thank the National Science Foundation (NSF) and SIGMM for their generous support for the MM’11 student travel award program.

We hope that you will enjoy the ACM MM’11 conference.

K. Selçuk Candan
Sethuraman (Panch) Panchanathan
Balakrishnan (Prabha) Prabhakaran

ACM MM’11 General Chairs

Scottsdale, Arizona, USA
MESSAGE FROM THE TECHNICAL PROGRAM CHAIRS

We have an exciting technical program at ACM Multimedia 2011. The process to select the technical program included several innovations. These innovations — guided by the recent report by a select SIG Multimedia committee — include the following: move to technical areas instead of tracks, each submitted paper had a primary area and an optional secondary area set by the authors at the time of submission, and an author rebuttal phase.

The ten areas were as follows:

- Multi-modal Integration and Understanding in the Imperfect World
- Media Analysis and Search
- Scalability in Media Processing, Analysis, and Applications
- Multimedia Systems and Middleware
- Media Transport and Sharing
- Multimedia Security
- Media Authoring and Production
- Location-based and Mobile Multimedia
- Human, Social, and Educational Aspects of Multimedia
- Arts and Contemporary Digital Culture

The areas — chosen in consultation with the broad SIG Multimedia community — reflect core research areas (e.g. multimedia systems and middleware), as well as different multimedia research contexts (e.g. location-based mobile multimedia). Typically, each area had two area chairs managing the review process; media analysis and search was an exception: due to the large number of submissions (39%), we assigned six area chairs to manage this area. The figure above shows the relationship between areas in the papers submitted for review—there is an edge between two areas when a paper has both areas specified in the paper. In the figure, edges with higher strength are more opaque.

Many authors specified both primary and secondary areas, resulting in the assignment of two reviewers from the primary area and one reviewer from the secondary area. In the minority of cases when there was no secondary area, we assigned all three reviewers from the primary area. The selection of reviewers from two different areas, allowed for a cross-disciplinary evaluation of the submitted paper. In past conferences a paper submitted to one of the four tracks was exclusively evaluated by reviewers from that track. Additionally, to increase the responsibility of the chairs as well as to give more credit to their work on their accepted paper, we have indicated the name of the AC that was supervising the reviewing process and which recommended the paper for acceptance.
The conference was highly competitive with low acceptance rates. We received a total of 666 submissions which included 335 long papers and 331 short papers. Subsequent to the initial notification, authors had one week to rebut the criticisms of the papers. After the rebuttal phase, the area chairs led a discussion with the reviewers on the merits of each paper, which included the author rebuttals. In the end, we accepted 58 long papers, with an acceptance rate of 17.3%, and 120 short papers with an acceptance rate of 36.3%. We additionally recommended 52 long papers to appear as short papers. The figure below shows the distribution of primary areas for all papers. We selected three papers were selected for the best paper and best student paper session. We solicited nominations from each area, for best student paper and best paper competition. The technical program chairs selected three from the nominations.

We would like to thank all of our area chairs and reviewers who volunteered a significant amount of their time to ensure a high quality program.

Hari Sundaram,  
ACM MM’11,  
Technical Program Chair  
Arizona State University, USA

Wu-Chi Feng,  
ACM MM’11,  
Technical Program Chair  
Portland State University, USA

Nicu Sebe,  
ACM MM’11,  
Technical Program Chair  
University of Trento, Italy

Scottsdale, Arizona, USA
MESSAGE FROM THE WORKSHOP CHAIRS

This year ACM Multimedia experiments a new workshop format such that the workshop are co-located with ACM Multimedia main conference, and are run in parallel with the conference sessions. The new format influenced the selection process: among the 28 very strong proposals we received, we could select only 11 workshops. We conducted the selection process in accordance with the SIGMM group guidelines, and have now in the program 11 strong workshops, whose themes are distinct from (and complement) the areas of the main conference. We have now the following very rich workshops program, spanning from relatively established topics at ACM MM (this is the case for those workshops which are at their 3rd edition) to topics that are very new in the ACM MM community:

- Workshop on Music Information Retrieval with User-Centered and Multimodal Strategies (MIRUM'11)
- Workshop on Multimedia in Forensics and Intelligence (MiFor'11)
- Workshop on Automated Media Analysis and Production for Novel TV Services (AIEMPro 2011)
- Workshop on Social Media (WSM11)
- Workshop on Social and Behavioral Networked Media Access (SBNMA'11)
- Workshop on Multimedia Technologies for Distance Learning (MTDL'11)
- Workshop on Interactive Multimedia on Mobile and Portable Devices (IMMPD'11)
- Joint Workshop on Modeling and Representing Events (J-MRE'11)
  - Part 1: Workshop on Events in Multimedia (EiMM11)
  - Part 2: Workshop on Sparse Representation for Event Detection in Multimedia (SRED’11)
- Joint Workshop on Human Gesture and Behavior Understanding (J-HGBU’11)
  - Part 1: Workshop on Social Signal Processing (SSPW’11)
  - Part 2: Workshop on Multimedia access to 3D Human Objects (MA3HO’11)
- Workshop on Medical Multimedia Analysis and Retrieval (MMAR)
- Workshop on Ubiquitous Meta User Interfaces (Ubi-MUI’11)

We would like to thank all the organizers who submitted their workshop proposals, and in particular the organizers of the workshops which appear now in the program. We are aware that new workshop format caused a significant amount of synchronization work from the organizers, who were required to align their internal deadlines and schedule to the ones of the main conference. We really appreciated their collaboration, and we are now confident of having reached a very interesting and successful workshop program.

We hope that all ACM MM attendees will enjoy our program, and that the new format will increase the appeal of the workshops, and significantly boost intellectual exchange.

Borko Furht
Jin Li
Maria Luisa Sapino

ACM MM’11 Workshop Chairs

November 28 - December 1, 2011
ACM MULTIMEDIA 2011 CONFERENCE ORGANIZATION

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                                      Hari Sundaram (Arizona State University, USA)

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                                     Ralf Steinmetz (TU Darmstadt, Germany)
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                                     Michelle Zhou (IBM Research, USA)

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                                   Yohan Jin (MySpace, Inc., USA)

Tutorials Chairs: Jiebo Luo (University of Rochester, USA)
                 Thomas Plagemann (University of Oslo, Norway)
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Panels Chairs: Shahram Ghandeharizadeh (University of Southern California, USA)
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               Stefan Gobel (TU Darmstadt, Germany)

Technical Demo Chairs: Vincent Charvillat (University of Toulouse, France)
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Human, Social, and Educational Aspects of Multimedia Chairs:
Massimo Zancanaro (Fondazione Bruno Kessler, Italy)
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Human, Social, and Educational Aspects of Multimedia:
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Matthias Rehm (University of Aalborg, Denmark)
Nicu Sebe (University of Trento, Italy)
Börkur Sigurbjörnsson (Yahoo! Research, USA)
Ramanathan Subramanian (University of Trento, Italy)
Hari Sundaram (Arizona State University, USA)
Raphael Troncy (Eurecom, France)
Svetha Venkatesh (Curtin University, Australia)
Justin Weisz (IBM T.J. Watson Research, USA)
Michelle Zhou (IBM Research, USA)

Arts and Contemporary Digital Culture Chairs:
Aisling Kelliher (Arizona State University, USA)
David A. Shamma (Yahoo! Research, USA)

Arts and Contemporary Digital Culture:
Barbara Barry (One Laptop Per Child, USA)
Joanna Berzowska (Concordia University, Canada)
Elizabeth Churchill (Yahoo! Research, USA)
Luca Farulli (Academy of Fine Arts of Venice, Italy)
Karrie Karahalios (Univ. of Illinois at Urbana-Champaign, USA)
Jofish Kaye (Nokia Research Palo Alto, USA)
Andruid Kerne (Texas A&M, USA)
Ann Morrison (HIIT, Finland)
Edgar Roman-Rangel (Idiap Research Institute, Switzerland)
Jurgen Scheible (Aalto University, Finland)
Sha Xin Wei (Concordia University, Canada)

Open Source Software Competition Chairs:
Wei-Tsang Ooi (National University of Singapore, Singapore)
Pablo Cesar (CWI, Netherlands)

Open Source Software Competition Evaluation Members:
John Adcock (FX PAL, USA)
Xavier Amatriain Rubio (Netflix, USA)
Marco Bertini (University of Florence, Italy)
Andrea Vedaldi (Oxford University, UK)
Mathias Lux (Klagenfurt University, Austria)
Ye Wang (National University of Singapore, Singapore)

Scottsdale, Arizona, USA
Ketan Mayer-Patel (UNC-Chapel Hill, USA)
Sebastien Mondet (University of Oslo, Norway)
Hendrik Knoche (EPFL, Switzerland)
Pavel Korshunov (EPFL, Switzerland)
Cyril Concolato (Telecom ParisTech, France)

Multimedia Grand Challenge Chairs:
Gerald Friedland (ICSI, University of California at Berkeley, USA)
Yohan Jin (MySpace, Inc., USA)

Multimedia Grand Challenge:
Patrick Perez (Technicolor, France)
Qian Lin (HP Labs, USA)
Kaushal Kurapati (Yahoo! Research, USA)
Timo Pekka Pylvanainen (Nokia Research Center Tampere, Finland)

Multimedia Grand Challenge On-site Jury:
Christophe Diot, (Technicolor Labs)
Qian Lin, (HP Labs, USA)
Timo Pylvanain, (Nokia Research Center)

Doctoral Symposium Chairs:
Yu-Ru Lin (Arizona State University, USA)
Vincent Oria (NJIT, USA)

Doctoral Symposium:
Cristian Borcea, (NJIT, USA)
K. Selçuk Candan (Arizona State University, USA)
Cees Snoek (University of Amsterdam, Netherlands)
Michelle Zhou (IBM Research, USA)
Michel Crucianu (CNAM, France)
Surendar Chandra (FX PAL, USA)
Valerie Gouet-Brunet (CNAM, France)
Maria Luisa Sapino (University of Turin, Italy)
Ichiro Ide (Nagoya University, Japan)
Shinichi Satoh (NII, Japan)
KEYNOTE TALKS

Honest Signals: How Social Networks Shape Human Behavior
Alex Pentland
MIT

ABSTRACT
How did humans coordinate before we had sophisticated language capabilities? Pre-linguistic social species coordinate by signaling, and in particular ‘honest signals’ which actually cause changes in the listener. I will describe examples of human behaviors that are honest signals, and how they can be used to accurately predict and shape the outcomes of interactions (medical compliance, negotiation, trust assessment, depression screening, etc.). Understanding how human decision making is influenced by these pre-linguistic patterns of signaling also leads to very different ways to build incentives to change. In a recent trial we were able to change population behaviors using a social signaling strategy, and achieved twice the efficiency of standard behavior change schemes.

BIO
Alex ‘Sandy’ Pentland directs MIT’s Human Dynamics Laboratory and the MIT Media Lab Entrepreneurship Program, and advises the World Economic Forum, Nissan Motor Corporation, and a variety of start-up firms. He has previously helped create and direct MIT’s Media Laboratory, the Media Lab Asia laboratories at the Indian Institutes of Technology, and Strong Hospital’s Center for Future Health. Sandy is one of the world’s most-cited computer scientists, and a pioneer in computational social science, organizational engineering, mobile computing, image understanding, and modern biometrics. His research has recently been featured in Nature, Science, the World Economic Forum, Harvard Business Review, and the popular press.

“U are Happy Life”: Telling the Future’s Stories
Genevieve Bell
Intel Fellow and Director, Interactions and Experience Research Intel Labs

BIO
Genevieve Bell joined Intel in 1998 as a researcher in Corporate Technology Group’s People and Practices Research team — Intel’s first social science oriented research team. She helped drive the company’s first non-U.S. field studies to inform business group strategy and products and conducted groundbreaking work in urban Asia in the early 2000s. Bell has been the driving force behind Intel’s emerging user-experience focus: over the last decade, she has fundamentally changed how Intel envisions, plans, and develops its platforms. Bell currently leads an R&D team of social scientists, interaction designers, human factors engineers, and a range of technology researchers to create the next generation of compelling user experiences across a range of internet-connected devices, platforms, and services. She will drive user-centered experience and design across the compute continuum.
Prior to joining Intel, Bell was a lecturer in the Department of Anthropology at Stanford University.
She has written more than 25 journal articles and book chapters on a range of subjects focused on the intersection of technology and society. Her book, “Divining the Digital Future,” co-authored with Prof. Paul Dourish, will be released by MIT Press in spring 2011. Raised in Australia, Bell received her bachelor’s degree in anthropology from Bryn Mawr College in 1990. She received her master’s and doctorate degrees in anthropology from Stanford University in 1993 and 1998, respectively.

Digital Media Distribution – The Future
Arnaud Robert
Senior Vice President
Distribution Technology Group
Walt Disney Studios

ABSTRACT
Consumer devices and technologies are evolving faster than ever, allowing for rich, interactive user experiences. But more importantly, media consumption behavior and expectations are changing and the promise of digital media remains to be fulfilled. In this presentation, we will explore major technology trends, consumer trends, and how they intersect with the future digital media experiences and business models.

BIO
Arnaud Robert is a renowned leader in digital media strategies, and in delivering innovative, cross-platforms consumer products for Disney, Technicolor, Microsoft, Nagravision-Kudelski and various start-ups. As Senior Vice President of Technology at The Walt Disney Studios, Arnaud guides the Studio through the rapidly changing digital media ecosystem and manages the engineering, product development and user experience teams, as well as the piracy management efforts. Arnaud received his PhD from the Swiss Institute of Technology and now also serves on the Media Council of the World Economic Forum and is a member of the National Academy of Engineering. Arnaud has 35 issued or pending patents, published over 30 broadly distributed scientific papers, and is a sought after speaker at corporate retreats and public events alike on wide range of topics from the future of digital entertainment to advances in signal processing.
### ACM Multimedia 2011 Program At A Glance

#### Monday (Nov.28): 1st Conference day

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<td>8:30-10:00</td>
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<tr>
<td>10:00-10:30</td>
<td>Coffee (South Foyer/Garden)</td>
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<tr>
<td>12:00-1:30</td>
<td>Lunch</td>
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<tr>
<td>1:30-3:00</td>
<td>Tutorial 6: Acoustic and Multimodal Processing for Multimedia Content Analysis (Vaquero E1)</td>
<td>Tutorial 7: Graphical Probabilistic Modeling and Applications in Multimedia Content Analysis (Vaquero E2)</td>
<td>Tutorial 8: Multimedia Tagging: Past, Present and Future (Vaquero F1)</td>
<td>Tutorial 9: Eye-tracking methodology and applications to images and video (Vaquero F2)</td>
<td>IEEE Multimedia Ed Board meeting (McDowell Room. By Invitation Only)</td>
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<td>3:00-3:30</td>
<td>Coffee (South Foyer/Garden)</td>
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<tr>
<td>3:30-5:00</td>
<td>Tutorial 6: Acoustic and Multimodal Processing for Multimedia Content Analysis (Vaquero E1)</td>
<td>Tutorial 7: Graphical Probabilistic Modeling and Applications in Multimedia Content Analysis (Vaquero E2)</td>
<td>Tutorial 8: Multimedia Tagging: Past, Present and Future (Vaquero F1)</td>
<td>Tutorial 9: Eye-tracking methodology and applications to images and video (Vaquero F2)</td>
<td>IEEE Multimedia Ed Board meeting (McDowell Room. By Invitation Only)</td>
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<tr>
<td>6:30-8:00</td>
<td>Reception (Outdoor, Terrace Court/Poolside)</td>
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Art Exhibit (Ballroom Foyers)
### Tuesday (Nov. 29): 2nd Conference day

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<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>8:15-9:45</td>
<td>Keynote 1 (Alex Sandy Pentland) &quot;Honest Signals: How social networks shape human behavior&quot; (Arizona Ballroom)</td>
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<tr>
<td>9:45-10:15</td>
<td>Coffee (South Foyer/Garden)</td>
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<tr>
<td>10:15-12:30</td>
<td>Technical Achievement Award and Best Paper Candidates Session (Arizona Ballroom)</td>
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<tr>
<td>12:30-2:00</td>
<td>TOMCCAP Ed Board meeting (McDowell Room. By Invitation Only)</td>
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<td>MM Ed Board meeting (Dunes A. By Invitation Only)</td>
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<td></td>
<td>Poster Plenary 1 (Vaquero A B C)</td>
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<td>2:00-4:00</td>
<td>Research 1: Human, social, and educational aspects of multimedia (Arizona Ballroom IV)</td>
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<td>Research 2: Location-based and mobile multimedia (Arizona Ballroom V)</td>
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<td>Open Source Software Competition 1 (Arizona Ballroom I II III)</td>
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<td>MiFor (Vaquero E)</td>
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<td>IMMPD (Vaquero F)</td>
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<td>MMAR (Vaquero G)</td>
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<td></td>
<td>Panel 1: Smart Games (Arizona Ballroom VI VII VIII)</td>
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<td>Art Exhibit (Ballroom Foyers)</td>
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<tr>
<td>4:00-4:30</td>
<td>Coffee (South Foyer/Garden)</td>
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<tr>
<td>4:30-6:30</td>
<td>Research 3: Multi-modal integration and understanding in the imperfect world (Arizona Ballroom IV)</td>
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<td>Research 4: Arts and contemporary digital culture (Arizona Ballroom V)</td>
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<td></td>
<td>Open Source Software Competition 2 (Arizona Ballroom I II III)</td>
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<td></td>
<td>MiFor (Vaquero E)</td>
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<td>IMMPD (Vaquero F)</td>
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<td>MMAR (Vaquero G)</td>
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<td>Industrial Exhibit / Technical Demos 1 (South Foyer, West Foyer)</td>
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<tr>
<td>8:30-10:00</td>
<td>ACM MM 2011-2012 Organizers meeting (McDowell Room. By Invitation Only)</td>
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### Wednesday (Nov.30): 3rd Conference day

<table>
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<tr>
<th>Time</th>
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<tr>
<td>8:30-10:00</td>
<td>Keynote 2 (Genevieve Bell) &quot;U are happy life&quot;: telling the future's stories (Arizona Ballroom)</td>
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<td>10:00-10:30</td>
<td>Coffee (South Foyer/Garden)</td>
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<tr>
<td>12:30-2:00</td>
<td>MSJ Ed Board meeting (McDowell Room. By Invitation Only)</td>
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<tr>
<td>2:00-4:00</td>
<td>Research 7: Media analysis and search (Arizona Ballroom IV)</td>
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<tr>
<td>4:00-4:30</td>
<td>Coffee (South Foyer/Garden)</td>
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<tr>
<td>4:30-6:30</td>
<td>SIGMM Business Meeting (Arizona Ballroom IV V)</td>
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<tr>
<td>7:30-10:30</td>
<td>Banquet (Arizona Ballroom)</td>
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### Thursday (Dec. 1): 4th Conference day

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
<th>Additional Information</th>
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<tbody>
<tr>
<td>8:30-10:00</td>
<td>Keynote 3 (Arnaud Robert) &quot;Digital Media Distribution – The Future &quot; (Arizona Ballroom)</td>
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<td>10:00-10:30</td>
<td>Coffee (South Foyer/Garden)</td>
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<tr>
<td>10:30-12:30</td>
<td>Research 9: Media analysis and search (Arizona Ballroom IV)</td>
<td>Research 10: Multimedia systems and middleware (Arizona Ballroom V)</td>
<td>UBI-MUI (Vaquero G1)</td>
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<tr>
<td>12:30-2:00</td>
<td>Poster Plenary 3 (Vaquero A B C)</td>
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<tr>
<td>2:00-4:00</td>
<td>Research 11: Media analysis and search (Arizona Ballroom IV)</td>
<td>Research 12: Multimedia systems and middleware (Arizona Ballroom V)</td>
<td>Industrial Panel: Innovating the Multimedia Experience (Arizona Ballroom VI VII VIII)</td>
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<tr>
<td>4:00-4:30</td>
<td>Coffee (South Foyer/Garden)</td>
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<tr>
<td>4:30-6:30</td>
<td>Coffee (South Foyer/Garden)</td>
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Scottsdale, Arizona, USA
# ACM MULTIMEDIA 2011 TUTORIALS

## Monday, November 28, 2011

### Tutorial 1: Frontiers In Multimedia Search

**Speakers:**
- Alan Hanjalic, Delft University of Technology
- Martha Larson, Delft University of Technology

*Tuesday, November 29, 2011, 8:30 AM - 12:00 PM*
*Hall: Vaquero E1*
*Twitter Tag: #mm11tt1*

### Tutorial 2: Internet Multimedia Advertising: Techniques and Technologies

**Speakers:**
- Tao Mei, Microsoft Research Asia
- Ruofei (Bruce) Zhang, Yahoo! Labs
- Xian-Sheng Hua, Microsoft Research Asia

*Tuesday, November 29, 2011, 8:30 AM - 12:00 PM*
*Hall: Vaquero E2*
*Twitter Tag: #mm11tt2*

### Tutorial 3: Internet Video Search

**Speakers:**
- Cees G.M. Snoek, University of Amsterdam
- Arnold W.M. Smeulders, University of Amsterdam

*Tuesday, November 29, 2011, 8:30 AM - 12:00 PM*
*Hall: Vaquero F1*
*Twitter Tag: #mm11tt3*

### Tutorial 4: Semantic Computing in Multimedia

**Speaker:**
- Simone Santini, Universidad Autonoma de Madrid

*Tuesday, November 29, 2011, 8:30 AM - 12:00 PM*
*Hall: Vaquero F2*
*Twitter Tag: #mm11tt4*

### Tutorial 5: Multimedia Music Signal Processing

**Speaker:**
- Gael Richard, Telecom ParisTech

*Tuesday, November 29, 2011, 8:30 AM - 12:00 PM*
*Hall: Vaquero G1*
*Twitter Tag: #mm11tt5*

### Coffee Break

*10:00 AM - 10:30 AM*
*South Foyer/Garden*

### Lunch
## Tutorial 6: Acoustic and Multimodal Processing for Multimedia Content Analysis
**Speaker:** Gerald Friedland, International Computer Science Institute  
**Tuesday, November 29, 2011, 1:30 PM - 5:00 PM**  
**Hall:** Vaquero E1  
**Twitter Tag:** #mm11tt6

## Tutorial 7: Graphical Probabilistic Modeling and Applications in Multimedia Content Analysis
**Speakers:**  
Xiao-Ping Zhang, Ryerson University  
Zhu Liu, AT&T-Research, USA  
**Tuesday, November 29, 2011, 1:30 PM - 5:00 PM**  
**Hall:** Vaquero E2  
**Twitter Tag:** #mm11tt7

## Tutorial 8: Multimedia Tagging: Past, Present and Future
**Speaker:**  
Jialie Shen, Singapore Management University  
Meng Wang, National University of Singapore  
Shuicheng Yan, National University of Singapore  
Xian-Sheng Hua, Microsoft Research Asia  
**Tuesday, November 29, 2011, 1:30 PM - 5:00 PM**  
**Hall:** Vaquero F1  
**Twitter Tag:** #mm11tt8

## Tutorial 9: Eye-Tracking Methodology And Applications To Images And Video
**Speakers:**  
Harish Katti, National University of Singapore  
Mohan Kankanhalli, National University of Singapore  
**Tuesday, November 29, 2011, 1:30 PM - 5:00 PM**  
**Hall:** Vaquero F2  
**Twitter Tag:** #mm11tt9

### Coffee Break
**3:00 PM - 3:30 PM**  
**South Foyer/Garden**

### Reception
**6:30 PM - 8:00 PM**  
**Outdoor (Terrace Court/Poolside)**

### Art Exhibit
**8:30 AM - 8:00 PM**  
**Ballroom Foyers**
ACM MULTIMEDIA 2011 MAIN CONFERENCE FULL PROGRAM DAY 1

Tuesday, November 29, 2011

KEYNOTE 1 & AWARDS

Keynote 1: Honest Signals: How Social Networks Shape Human Behavior
Speaker: Alex 'Sandy' Pentland, MIT Human Dynamics Lab
Tuesday, November 29, 2011, 8:15 AM - 9:45 AM
Hall: Arizona Ballroom
Twitter Tag: #mm11kn1

Coffee Break
9:45 AM - 10:15 AM
South Foyer/Garden

Technical Achievement Award And Best Paper Candidates Session
Session Chair: Svetla Venkatesh, Curtin University
Tuesday, November 29, 2011, 10:15 AM - 12:30 PM
Hall: Arizona Ballroom
Twitter Tag: #mm11ta

Technical Achievement Award
Content Based Multimedia Retrieval: Lessons Learned from Two Decades of Research
Shih-Fu Chang, Columbia University

Best Paper Candidates
Active Query Sensing for Mobile Location Search
Felix X. Yu, Columbia University
Rongrong Ji, Columbia University
Shih-Fu Chang, Columbia University

Color-plus-Depth Level-of-Details in 3D Teleimmersive Video - A Psychophysical Approach
Wanmin Wu, University of Illinois at Urbana-Champaign
Ahsan Arefin, University of Illinois at Urbana-Champaign
Gregorij Kurillo, University of California at Berkeley
Pooja Agarwal, University of Illinois at Urbana-Champaign
Klara Nahrstedt, University of Illinois at Urbana-Champaign
Ruzena Bajcsy, University of California at Berkeley

"Seeing" ENF: Natural Time Stamp for Digital Video via Optical Sensing and Signal Processing
Ravi Garg, University of Maryland
Avinash L Varna, University of Maryland
Min Wu, University of Maryland

POSTER PLENARY DAY 1

Poster Plenary Day 1
Session Chair: Alexander Loui, Eastman Kodak Company
Tuesday, November 29, 2011, 12:30 PM - 2:00 PM
All papers, including short papers, long papers, workshop papers, and others, will also be presented in the poster plenary sessions on the same day as their regular presentations.

<table>
<thead>
<tr>
<th>Short Papers</th>
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<tr>
<td><strong>Analysis of Cypriot Icon Faces using ICA Enhanced Active Shape Model Representation</strong></td>
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<td>Guifang Duan, Ritsumeikan University</td>
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<td>Neela Sawant, The Pennsylvania State University</td>
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<td>James Z. Wang, The Pennsylvania State University/National Science Foundation</td>
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<td>Dean Snow, The Pennsylvania State University</td>
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<td>Danni Ai, Ritsumeikan University</td>
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<td>Yen-Wei Chen, Ritsumeikan University</td>
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<td><strong>A Creation-Tool for Contemporary Dance using Multimodal Video Annotation</strong></td>
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<td>Diogo Cabral, Universidade Nova de Lisboa</td>
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<td>João Valente, Universidade Nova de Lisboa</td>
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<td>João Silva, Universidade Nova de Lisboa</td>
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<td>Urândia Aragão, Universidade Nova de Lisboa</td>
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<td>Carla Fernandes, Universidade Nova de Lisboa</td>
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<td>Nuno Correia, Universidade Nova de Lisboa</td>
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<td><strong>Flower Power</strong></td>
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<td>Gianluca Monaci, Philips Research</td>
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<td>Tommaso Gritti, Philips Research</td>
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<td>Fabio Vignoli, Philips Retail Solutions</td>
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<td>Wouter Walmink, Studio:ludens</td>
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<td>Maarten Hendriks, Little Mountain</td>
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<tr>
<td><strong>Crowdsourcing Visual Detectors for Video Search</strong></td>
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<td>Bauke Freiburg, Video Dock</td>
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<td>Jaap Kamps, University of Amsterdam</td>
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<tr>
<td>Cees G.M. Snoek, University of Amsterdam</td>
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<tr>
<td><strong>A Mobile Interactive Robot for Gathering Structured Social Video</strong></td>
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<td>Alexander Reben, MIT Media Lab</td>
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<td>Joseph Paradiso, MIT Media Lab</td>
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<tr>
<td><strong>Abstract Rendering of Human Activity in a Dynamic Distributed Learning Environment</strong></td>
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<td>Andreea Danielescu, Arizona State University</td>
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<td>Ryan P. Spicer, Arizona State University</td>
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<td>David Tinapple, Arizona State University</td>
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<td>Aisling Kelliher, Arizona State University</td>
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<td>Shawn Nikkila, Arizona State University</td>
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<td>Sean Burdick, Unaffiliated</td>
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<tr>
<td><strong>'WaterTouch': An Aquatic Interactive Multimedia Sensory Table based on Total Internal Reflection in Water</strong></td>
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<tr>
<td>Steve Mann, University of Toronto</td>
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<td>Ryan Janzen, University of Toronto</td>
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<td>Jason Huang, University of Toronto</td>
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<tr>
<td><strong>Quality of Experience Evaluation of Voice Communication Systems using Affect-based Approach</strong></td>
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<td>Abhishek Bhattacharya, Florida International University</td>
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<td>Wanmin Wu, University of Illinois at Urbana-Champaign</td>
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<td>Zhenyu Yang, Florida International University</td>
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<tr>
<td><strong>A Multi-layer Hybrid Framework for Dimensional Emotion Classification</strong></td>
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<td>Mihalis A. Nicolaou, Imperial College</td>
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<td>Hatice Gunes, University of London, U.K.</td>
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<td>Maja Pantic, Imperial College</td>
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<tr>
<td><strong>Transforming Clinical Rehabilitation into Interactive Multimedia</strong></td>
</tr>
</tbody>
</table>
Catherine H. Vuong, Arizona State University
Todd Ingalls, Arizona State University
James J Abbas, Arizona State University

Socially Relevant Simulation Games: A Design Study
Ramin Tadayon, Arizona State University
Ashish Amresh, Arizona State University
Winslow Burleson, Arizona State University

Context-based Friend Suggestion in Online Photo-Sharing Community
Ting Yao, City University of Hong Kong
Chong-Wah Ngo, City University of Hong Kong
Tao Mei, Microsoft Research Asia

Music Visualization: Predicting the Perceived Speed of a Composition -- Misual Project --
Anastasia Gumulia, University of British Columbia & NTT Communication Science
BartBomiej PuzoD, AGH University of Science and Technology & NTT Communication Science
Naoko Kosugi, NTT Communication Science

Kinship Verification from Facial Images Under Uncontrolled Conditions
Xiuzhuang Zhou, College of Information Engineering, Capital Normal University
Junlin Hu, College of Information Science and Technology, Beijing Normal University
Jiwen Lu, School of Electrical and Electronics Engineering, Nanyang Technological University
Yuanyuan Shang, College of Information Engineering, Capital Normal University
Yong Guan, College of Information Engineering, Capital Normal University

VastMM-Tag: A Semantic Tagging Browser for Unstructured Videos
Mitchell J Morris, Columbia University
John R Kender, Columbia University

Expanding the Point -- Automatic Enlargement of Presentation Video Elements
Qiyam Tung, University of Arizona
Ranjini Swaminthan, University of Arizona
Alon Efrat, University of Arizona
Kobus Barnard, University of Arizona

Sharing Rectangular Objects in a Video Conference
Senthil Kumar, Alcatel Lucent
Sreedal Menon, Alcatel Lucent
Francis Zane, Alcatel Lucent

Biased Metric Learning for Person-Independent Head Pose Estimation
Hao Ji, Beijing University of Posts and Telecommunications
Fei Su, Beijing University of Posts and Telecommunications

Next Photo Please: Towards Visually Consistent Sequential Photo Browsing
Dong Liu, Harbin Institute of Technology
Shuicheng Yan, National University of Singapore
Hong-Jiang Zhang, Microsoft Adavanced Technology Center

Towards Understanding User Tolerance to Network Latency in Zoomable Video Streaming
Khiem Quang Minh Ngo, National University of Singapore
Ravindra Guntur, National University of Singapore
Wei Tsang Ooi, National University of Singapore

Socialising through Orchestrated Video Communication
Marian Ursu, Goldsmiths, University of London
Pedro Torres, Goldsmiths, University of London
Vilmos Zsombori, Goldsmiths, University of London
Michael Franzis, Goldsmiths, University of London
Rene Kaiser, JOANNEUM RESEARCH

Perceptual Coding of Recorded Telementalpulation Sessions
Fernanda Brandi, Technische Universität München
Eckehard Steinbach, Technische Universität München

Automatic Modeling of Personality States in Small Group Interactions
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<th>Title</th>
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<tr>
<td>Snap &amp; Play: Auto-Generate Personalized Find-the-Difference Mobile Game</td>
<td>Jacopo Staiano, DISI-University of Trento</td>
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<td>Bruno Lepri, FBK</td>
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<td>Ramanathan Subramanian, DISI-University of Trento</td>
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<td>Nicu Sebe, DISI-University of Trento</td>
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<td>Fabio Pianesi, FBK</td>
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<td>Fast Detection of Noisy GPS and Magnetometer Tags in Wide-Baseline</td>
<td>Si Liu, Institute of Automation, Chinese Academy of Sciences. China-Singapore Institute of Digital Media, Singapore</td>
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<td>Multi-Views</td>
<td>Qiang Chen, Department of ECE, National University of Singapore</td>
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<td>Jian Dong, Department of ECE, National University of Singapore</td>
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<td>Shuicheng Yan, Department of ECE, National University of Singapore</td>
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<td>Changsheng Xu, Institute of Automation, Chinese Academy of Sciences China-Singapore</td>
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<td>Institute of Digital Media, Singapore</td>
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<td>Hanqing Lu, Institute of Automation, Chinese Academy of Sciences China-Singapore Institute of Digital Media, Singapore</td>
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<td>Video-based Image Retrieval</td>
<td>Linjun Yang, Microsoft Research Asia</td>
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<td>Yang Cai, Zhejiang University</td>
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<td>Alan Hanjalic, Delft University of Technology</td>
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<td>Xian-Sheng Hua, Microsoft Bing</td>
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<td>Shipeng Li, Microsoft Research Asia</td>
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<td>Location-Aware System Based on a Dynamic 3D Model to Help in Live</td>
<td>Roberto Yus, University of Zaragoza</td>
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<td>Broadcasting of Sport Events</td>
<td>Eduardo Mena, University of Zaragoza</td>
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<td>Jorge Bernad, University of Zaragoza</td>
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<td>Arantza Illarramendi, Basque Country University</td>
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<td>Real-Time 3D Interaction with Deformable Model on Mobile Devices</td>
<td>Ziyi Tang, Towson University</td>
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<td>Orkun Ozbek, Tufts University</td>
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<td>Xiaohu Guo, University of Texas at Dallas</td>
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<td>Keyframe Presentation for Browsing of User-generated Videos on Map</td>
<td>Jia Hao, National University of Singapore</td>
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<td>Interfaces</td>
<td>Guanfeng Wang, National University of Singapore</td>
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<td>Beomjoo Seo, National University of Singapore</td>
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<td>Roger Zimmermann, National University of Singapore</td>
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<td>Detecting and Identifying People in Mobile Videos</td>
<td>Xunyi Yu, University of Massachusetts, Amherst</td>
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<td>Aura Ganz, University of Massachusetts, Amherst</td>
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<td>Multiple Object Localization by Context-Aware Adaptive Window Search</td>
<td>Fang-Erh Lin, National Taiwan University</td>
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<td>and Search-Based Object Recognition</td>
<td>Yin-Hsi Kuo, National Taiwan University</td>
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<td>Winston H. Hsu, National Taiwan University</td>
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<td>Clustering Geo-tagged Photo Collections Using Dynamic Programming</td>
<td>Matthew L. Cooper, FX Palo Alto Laboratory</td>
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<td>Combining Image and Text Features: A Hybrid Approach to Mobile Book</td>
<td>Sam S. Tsai, Stanford University</td>
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<td>Spine Recognition</td>
<td>David Chen, Stanford University</td>
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Scottsdale, Arizona, USA
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<td>Huizhong Chen</td>
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<td>Jatinder P Singh</td>
<td>Deutsche Telekom R&amp;D Laboratories USA</td>
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<td>Bernd Girod</td>
<td>Stanford University</td>
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<td>Knowledge Propagation in Large Image Databases Using Neighborhood Information</td>
<td>Michael E. Houle, National Institute of Informatics</td>
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<td>Vincent Oria, New Jersey Institute of Technology</td>
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<td>Shin'ichi Satoh, National Institute of Informatics</td>
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<td>Jichao Sun, New Jersey Institute of Technology</td>
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<td>Edge-Preserving Single Image Super-Resolution</td>
<td>Qiang Zhou, Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences, China</td>
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<td>On the Pooling of Positive Examples with Ontology for Visual Concept Learning</td>
<td>Shiai Zhu, City University of Hong Kong</td>
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<td>Yu-Gang Jiang, Fudan University</td>
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<td>Saliency-based Image Retargeting in the Compressed Domain</td>
<td>Yuming Fang, Nanyang Technological University</td>
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<td>Mining Concept Relationship in Temporal Context for Effective Video Annotation</td>
<td>Jian Yi, Institute of Computer Science and Technology, Peking University, Beijing, China</td>
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<td>Yuxin Peng, Institute of Computer Science and Technology, Peking University, Beijing, China</td>
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<td>Structure Tensor Series-based Matching for Near-Duplicate Video Retrieval</td>
<td>Xiangmin Zhou, CSIRO</td>
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<td>A Smart Video Player with Content-Based Fast-Forward Playback</td>
<td>Junfeng Jiang, Ryerson University</td>
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<td>Video Anatomy: Cutting Video Volume for Profile</td>
<td>Hongyuan Cai, IUPUI</td>
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<td>Capture and Display for Live Immersive 3D Entertainment</td>
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<td>Harlyn Baker, Hewlett-Packard Laboratories</td>
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<td>Zhigeng Pan, Hangzhou Normal University</td>
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<td>'Learning Verb-Object' Concepts for Semantic Image Annotation</td>
<td>Xinming Zhang, Chinese Academy of Sciences &amp; China-Singapore Institute of Digital Media</td>
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<td>A Novel Method for Semantic Video Concept Learning using Web Images</td>
<td>Yongqing Sun, NTT Cyber Solutions Laboratories, NTT Corporation</td>
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<td>Akira Kojima, NTT Cyber Solutions Laboratories, NTT Corporation</td>
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<td>Efficient Multi-modal Retrieval in Conceptual Space</td>
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<td>Tatsuya Harada, The University of Tokyo / JST PRESTO</td>
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<td>Yasuo Kuniyoshi, The University of Tokyo</td>
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<td>Up-Fusion: An Evolving Multimedia Decision Fusion Method</td>
<td>Xiangyu Wang, National University of Singapore</td>
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<td>Yong Rui, Microsoft China R&amp;D Group</td>
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<td>Robust Hand Gesture Recognition Based on Finger-Earth Mover's Distance with a Commodity Depth Camera</td>
<td>Zhou Ren, Nanyang Technological University</td>
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<td>Zhengyou Zhang, Microsoft Research Redmond</td>
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<td>Recognizing Clothes Patterns for Blind People by Confidence Margin based Feature Combination</td>
<td>Xiaodong Yang, The City College of New York, CUNY</td>
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<td>Dual-sensor Fusion for Indoor User Localisation</td>
<td>Milan Redzic, Dublin City University</td>
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<td>Conor Brennan, Dublin City University</td>
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<td>Noel E O'Connor, Dublin City University</td>
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<td>Document Dependent Fusion in Multimodal Music Retrieval</td>
<td>Zhonghua Li, National University of Singapore</td>
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<td>Ye Wang, National University of Singapore</td>
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<td>Finding Representative and Diverse Community Contributed Images to Create Visual Summaries of Geographic Areas</td>
<td>Stevan Rudinac, Delft University of Technology</td>
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<td>Fusing Object Detection and Region Appearance for Image-text Alignment</td>
<td>Luca Del Pero, University of Arizona</td>
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<td>Emily Hartley, University of Arizona</td>
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<td>Kobus Barnard, University of Arizona</td>
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<td>Ping Wang, ObjectVideo</td>
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<td>Bottom-up Saliency based on Weighted Sparse Coding Residual</td>
<td>Biao Han, Digital Media Laboratory, Shanghai University</td>
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<td>Hao Zhu, State Key Laboratory of Cognitive Neuroscience and Learning, Beijing Normal University</td>
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<td>Youdong Ding, Digital Media Laboratory, Shanghai University</td>
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<td>Purposive Hidden-Object-Game: Embedding Human Computation in Popular Game</td>
<td>Yuzhao Ni, Department of ECE, National University of Singapore</td>
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<td>Jian Dong, Department of ECE, National University of Singapore</td>
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<td>Geo-Localization of Street Views with Aerial Image Databases</td>
<td>Mayank Bansal, SRI International Sarnoff</td>
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<td>Harpreet S Sawhney, SRI International Sarnoff</td>
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<td>Hui Cheng, SRI International Sarnoff</td>
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<td>Kostas Daniilidis, University of Pennsylvania</td>
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### ORAL SESSIONS DAY 1

#### Research 1: Human, Social, and Educational Aspects of Multimedia

**Session Chair:** Fabio Pianesi, FBK  
**Tuesday, November 29, 2011, 2:00 PM - 4:00 PM**  
**Hall:** Arizona Ballroom IV  
**Twitter Tag:** #mm11rs1

**Can Computers Learn From Humans To See Better? Inferring Scene Semantics From Viewers' Eye Movements**  
Ramanathan Subramanian, University of Trento  
Victoria Yanulevskaya, University of Trento  
Nicu Sebe, University of Trento

**Combining Content-based Analysis and Crowdsourcing to Improve User Interaction with Zoomable Video**  
Axel Carlier, University of Toulouse  
Ravindra Guntur, National University of Singapore  
Vincent Charvillat, University of Toulouse  
Wei Tsang Ooi, National University of Singapore

**Visual Memes in Social Media**  
Lexing Xie, Australian National University  
Apostol Natsev, IBM Research  
John R Kender, Columbia University  
Matthew Hill, IBM Research  
John R Smith, IBM Research

**The Role of Attractiveness in Web Image Search**  
Bo Geng, Peking University  
Linjun Yang, Microsoft Research Asia  
Chao Xu, Peking University  
Xian-Sheng Hua, Microsoft Research Asia  
Shipeng Li, Microsoft Research Asia

#### Research 2: Location-based and Mobile Multimedia

**Session Chair:** Hari Sundaram, Arizona State University  
**Tuesday, November 29, 2011, 2:00 PM - 4:00 PM**  
**Hall:** Arizona Ballroom V  
**Twitter Tag:** #mm11rs2

**JIGSAW: Interactive Mobile Visual Search with Multimodal Queries**  
Yang Wang, University of Science and Technology of China  
Tao Mei, Microsoft Research Asia  
Jingdong Wang, Microsoft Research Asia  
Houqiang Li, University of Science and Technology of China  
Shipeng Li, Microsoft Research Asia

**Personalized Travel Recommendation by Mining People Attributes from Community-Contributed Photos**  
An-Jung Cheng, National Taiwan University
Yan-Ying Chen, National Taiwan University  
Yen-Ta Huang, National Taiwan University  
Winston H. Hsu, National Taiwan University  
Hong-Yuan Mark Liao, Institute of Information Science, Academia Sinica

**Automatic Tag Generation and Ranking for Sensor-rich Outdoor Videos**  
Zhijie Shen, National University of Singapore  
Sakire Arslan Ay, National University of Singapore  
Seon Ho Kim, University of Southern California  
Roger Zimmermann, National University of Singapore

**Using Graphics Rendering Contexts to Enhance the Real-Time Video Coding for Mobile Cloud Gaming**  
Shu Shi, University of Illinois at Urbana-Champaign  
Cheng-Hsin Hsu, National Tsing Hua University  
Klara Nahrstedt, University of Illinois at Urbana-Champaign  
Roy Campbell, University of Illinois at Urbana-Champaign

**Coffee Break**  
4:00 PM - 4:30 PM  
South Foyer/Garden

**Research 3: Multi-modal Integration and Understanding in the Imperfect World**  
Session Chair: Cees Snoek, University of Amsterdam  
*Tuesday, November 29, 2011, 4:30 PM - 6:30 PM*  
*Hall: Arizona Ballroom IV*  
*Twitter Tag: #mm11rs3*

**Modeling Social Strength in Social Media Community via Kernel-based Learning**  
Jinfeng Zhuang, Nanyang Technological University  
Tao Mei, Microsoft Research Asia  
Steven C. H. Hoi, Nanyang Technological University  
Xian-Sheng Hua, Microsoft  
Shipeng Li, Microsoft Research Asia

**Audio-Visual Grouplet: Temporal Audio-Visual Interactions for General Video Concept Classification**  
Wei Jiang, Eastman Kodak Company  
Alexander C Loui, Eastman Kodak Company

**News Contextualization with Geographic and Visual Information**  
Zechao Li, Institute of Automation, Chinese Academy of Sciences  
Meng Wang, School of Computing, National University of Singapore  
Jing Liu, Institute of Automation, Chinese Academy of Sciences  
Changsheng Xu, Institute of Automation, Chinese Academy of Sciences  
Hanqing Lu, Institute of Automation, Chinese Academy of Sciences

**Multi-Modal Constraint Propagation for Heterogeneous Image Clustering**  
Zhenyong Fu, Shanghai Jiao Tong University  
Horace H.S. Ip, City University of Hong Kong  
Hongtao Lu, Shanghai Jiao Tong University  
Zhiwu Lu, Peking University

**Research 4: Arts and Contemporary Digital Culture**  
Session Chair: Aisling Kelliher, ASU  
*Tuesday, November 29, 2011, 4:30 PM - 6:30 PM*  
*Hall: Arizona Ballroom V*  
*Twitter Tag: #mm11rs4*
Implicit Experiences as a Determinant of Perceptual Quality and Aesthetic Appreciation
Wendy Ann Mansilla, Centre for Quantifiable Quality of Service in Communication Systems (Q2S) Norwegian University of Science and Technology
Andrew Perkis, Centre for Quantifiable Quality of Service in Communication Systems (Q2S) Norwegian University of Science and Technology
Touradj Ebrahimi, École Polytechnique Fédérale de Lausanne

Searching the Past: An Improved Shape Descriptor to Retrieve Maya Hieroglyphs
Edgar Roman-Rangel, Idiap Research Institute & École Polytechnique Fédérale de Lausanne (EPFL)
Carlos Pallan Gayol, National Institute of Anthropology and History
Jean-Marc Odobez, Idiap Research Institute & École Polytechnique Fédérale de Lausanne (EPFL)
Daniel Gatica-Perez, Idiap Research Institute & École Polytechnique Fédérale de Lausanne (EPFL)

Shedding Light on Shadow: Real-time Interactive Artworks based on Cast Shadows or Silhouettes
Christian Jacquemin, LIMSI-CNRS & Univ. Paris-Sud
Georges Gagneré, Didascalie.net
Benoit Lahoz, L’ange Carasuelo

OPEN SOURCE SOFTWARE COMPETITION

Open Source Software Competition 1: Content And Systems
Session Chair: Wei-Tsang Ooi, National University of Singapore
Tuesday, November 29, 2011, 2:00 PM - 4:00 PM
Hall: Arizona Ballroom I, II, III
Twitter Tag: #mm11os1

(o) Oral paper: 20 minutes (15 minutes presentation + 5 minutes questions)
(p) Poster paper: 10 minutes (5 minutes presentation + 5 minutes questions)

(o) OpenIMAJ and ImageTerrier: Java Libraries and Tools for Scalable Multimedia Analysis and Indexing of Images
Jonathon S Hare, University of Southampton
Sina Samangooei, University of Southampton
David P Dupplaw, University of Southampton

(p) Content Based Image Retrieval with LIRE
Mathias Lux, Klagenfurt University

(o) From Images to 3D Models Made Easy
Isaac Esteban, TNO & University of Amsterdam
Judith Dijk, TNO
Frans C.A. Groen, University of Amsterdam

(p) A C++ Library for Handling MPEG-7 Descriptions
Werner Bailer, JOANNEUM RESEARCH
Hermann Fürntratt, JOANNEUM RESEARCH
Peter Schallauer, JOANNEUM RESEARCH
Georg Thallinger, JOANNEUM RESEARCH
Werner Haas, JOANNEUM RESEARCH

(o) The FCam API for Programmable Cameras
Sung Hee Park, Stanford University
Andrew Adams, Stanford University
Eino-Ville Talvala, Google Inc.

(p) Tribler: P2P media search and sharing
Niels Zeilemaker, Delft University of Technology
Mihai Capota, Delft University of Technology
Arno Bakker, Delft University of Technology
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<th><strong>Coffee Break</strong></th>
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<td><strong>South Foyer/Garden</strong></td>
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| **Open Source Software Competition 2: Applications And Education** |
| Session Chair: Pablo Cesar, CWI |
| **Tuesday, November 29, 2011, 4:30 PM - 6:30 PM** |
| **Hall: Arizona Ballroom I, II, III** |
| **Twitter Tag: #mm11os2** |

- **(o) Just-In-Time Adaptive Decoder Engine: A universal video decoder based on MPEG RVC**  
  Johan Pouwelse, Delft University of Technology  
  (o) Just-In-Time Adaptive Decoder Engine: A universal video decoder based on MPEG RVC  
  Jérome Gorin, ARTEMIS/ Telecom SudParis  
  Yviquel Hervé, IRISA, University of Rennes 1  
  Prêteux Françoise, MINES ParisTech  
  Raulet Mickael, INSA  

| **(o) GoalBit: A Free and Open Source Peer-to-Peer Streaming Network** |
| Andrs Barrios, GoalBit-Solutions  
  Matias Barrios, GoalBit-Solutions  
  Daniel De Vera, GoalBit-Solutions  
  Pablo Rodríguez-Bocca, Facultad de Ingeniería, Universidad de la República  
  Claudia Rostagnol, GoalBit-Solutions |

| **(o) A VLC Media Player Plugin enabling Dynamic Adaptive Streaming over HTTP** |
| Christopher Müller, Alpen-Adria-Universität Klagenfurt  
  Christian Timmerer, Alpen-Adria-Universität Klagenfurt |

| **(o) Experimenting with Multimedia Advances using GPAC** |
| Jean Le Feuvre, Telecom ParisTech  
  Cyril Concolato, Telecom ParisTech  
  Jean-Claude Dufourd, Telecom ParisTech  
  Romain Bouqueau, Telecom ParisTech  
  Jean-Claude Moissinac, Telecom ParisTech |

| **(p) OpenMusic: Visual Programming Environment for Music Composition, Analysis and Research** |
| Jean Bresson, STMS: IRCAM-CNRS-UPMC  
  Carlos Agon, STMS: IRCAM-CNRS-UPMC  
  Gérard Assayag, STMS: IRCAM-CNRS-UPMC |

| **(o) Timesheets.js: Tools for Web Multimedia** |
| Fabien Cazenave, INRIA  
  Vincent Quint, INRIA  
  Cécile Roisin, Grenoble University & INRIA |

| **(o) ClassX - An Open Source Interactive Lecture Streaming System** |
| Sherif Halawa, Stanford University  
  Derek Pang, Stanford University  
  Ngai-Man Cheung, Stanford University  
  Bernd Girod, Stanford University |

| **(o) Opencast Matterhorn 1.1: Reaching New Heights** |
| Christopher A. Brooks, University of Saskatchewan  
  Markus Ketterl, Universität Osnabrück  
  Adam Hochman, University of California at Berkeley  
  Josh Holtzman, University of California at Berkeley  
  Judy Stern, University of California at Berkeley  
  Tobias Wunden, Eidgenössische Technische Hochschule Zürich |
WORKSHOPS DAY 1

International ACM Workshop on Multimedia in Forensics and Intelligence (MiFor’11)
Workshop Chairs:
  Sebastiano Battiato, Università di Catania
  Sabu Emmanuel, Nanyang Techn. University
  Adrian Ulges, DFKI
  Marcel Worring, University of Amsterdam
Tuesday, November 29, 2011, 2:00 PM - 5:50 PM
Hall: Vaquero E
Twitter Tag: #mm11mf

Opening
Marcel Worring, University of Amsterdam
2:00 PM - 2:05 PM

Session 1: Biometrics, Retrieval and Privacy
Session Chair: TBD
2:05 PM - 3:50 PM

Gang and Moniker Identification by Graffiti Matching
Wei Tong, Michigan State University
Jung-Eun Lee, Michigan State University
Rong Jin, Michigan State University
Anil K. Jain, Michigan State University
2:05 PM - 2:40 PM

Measuring Measures for Face Sample Quality
Maria De Marsico, Sapienza Università di Roma
Michele Nappi, University of Salerno
Daniel Riccio, University of Salerno
2:40 PM - 3:15 PM

A Secret Sharing based Privacy Enforcement Mechanism for Untrusted Social Networking Operators
Pradeep K Atrey, The University of Winnipeg
3:15 PM - 3:50 PM

Coffee Break
4:00 PM - 4:30 PM
South Foyer/Garden

Session 2: Multimedia Tampering and Forgery
Session Chair: TBD
4:30 PM – 5:40 PM

A Forensic Signature Based on Spatial Distributed Bag of Features for Image Alignment and Tampering Detection
Sebastiano Battiato, University of Catania
Giovanni Maria Farinella, University of Catania
Enrico Messina, University of Catania
Giovanni Puglisi, University of Catania
4:30 PM - 5:05 PM

Detection of Misaligned Cropping and Recompression with the Same Quantization Matrix and Relevant Forgery
Qingzhong Liu, Sam Houston State University
5:05 PM - 5:40 PM

Closing
5:40 PM – 5:50 PM

International ACM Workshop on Interactive Multimedia on Mobile and Portable Devices (IMMPD'11)
Workshop Chairs:
Jiebo Luo, Kodak Research Laboratories
Caifeng Shan, Philips Research
Ling Shao, University of Sheffield
Minoru Etoh, NTT DOCOMO
Tuesday, November 29, 2011, 2:00 PM - 5:20 PM
Hall: Vaquero F
Twitter Tag: #mm11im

Opening
Jiebo Luo, Minoru Etoh
2:00 PM - 2:10 PM

Oral Session 1
Session Chair:
2:10 PM - 3:25 PM

A Novel PRO-CAM based Interactive Display Surface
Wenhong Yuan, University of Science and Technology of China
Bin Li, University of Science and Technology of China
Kongqiao Wang, Nokia Research Center
2:10 PM - 2:35 PM

Mobile Interactive Region-of-Interest Video Streaming with Crowd-Driven Prefetching
Derek Pang, Stanford University
Sherif Halawa, Stanford University
Ngai-Man Cheung, Stanford University
Bernd Girod, Stanford University
2:35 PM - 3:00 PM

Comp2Watch: Enhancing the Mobile Video Browsing Experience
Yu-Ming Hsu, National Taiwan University
Ming-Kuang Tsai, National Taiwan University
Yen-Liang Lin, National Taiwan University
Winston H. Hsu, National Taiwan University
3:00 PM - 3:25 PM

Coffee Break and Poster Session
3:25 PM - 4:00 PM

System Level Power Allocation Algorithm for Mobile Devices for Full Playback Guarantee
Sachin Deshpande, Sharp Laboratories of America
Louis Kerofsky, Sharp Laboratories of America
3:25 PM - 4:00 PM

Oral Session 2
4:00 PM – 5:15 PM
### Image Collection Summarization for Search Result Overviewing on Mobile Devices
Go Irie, NTT Corporation & The University of Tokyo
Takashi Satou, NTT Corporation
Akira Kojima, NTT Corporation
Toshihiko Yamasaki, Cornell University
Kiyoharu Aizawa, The University of Tokyo
4:00 PM - 4:25 PM

### Interactive and Real-Time Generation of Home Video Summaries on Mobile Devices
Jianwei Niu, Beihang University
Da Huo, Beihang University
Xiao Zeng, Nokia Research Center
Jonathan Mugan, Carnegie Mellon University
4:25 PM - 4:50 PM

### Using Ephemeral Clustering and Query Logs to Organize Web Image Search Results on Mobile Devices
Jose G. Moreno, University of Beira Interior
Gaël H. Dias, University of Beira Interior
4:50 PM - 5:15 PM

### Closing
5:15 PM – 5:20 PM

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### International ACM Workshop on Medical Multimedia Analysis and Retrieval (MMAR)
Workshop Chairs:
- Yu Cao, The University of Tennessee at Chattanooga
- Jayashree Kalpathy-Cramer, Oregon Health & Science University
- Devrim Ünay, Bahçesehir University
_Tuesday, November 29, 2011, 2:00 PM - 6:00 PM_  
_Hall: Vaquero G_  
_Twitter Tag: #mm11mm_

#### Opening Remarks
Yu Cao, The University of Tennessee
2:00 PM - 2:05 PM

#### Oral Session 1: Medical Image Retrieval and Classification
2:05 PM - 3:50 PM

**(Regular) Hierarchical Spatial Matching for Medical Image Retrieval**
Yang Song, University of Sydney
Weidong Cai, University of Sydney
Dagan Feng, University of Sydney
2:05 PM - 2:40 PM

**(Regular) Predicting Modality from Text Queries for Medical Image Retrieval**
Pierre Tirilly, University of Wisconsin-Milwaukee
Kun Lu, University of Wisconsin-Milwaukee
Xiangming Mu, University of Wisconsin-Milwaukee
2:40 PM - 3:15 PM

**(Invited) Towards the Improvement of Textual Anatomy Image Classification using Image Local Features**
Xiao Bing Huang, University of Wisconsin-Milwaukee
Tian Zhao, University of Wisconsin-Milwaukee
Yu Cao, University of Tennessee-Chattanooga
Xiangming Mu, University of Wisconsin-Milwaukee
Pierre Tirilly, University of Wisconsin-Milwaukee
3:15 PM - 3:50 PM
MAIN CONFERENCE FULL PROGRAM DAY 1

### Discussion
3:50 PM - 4:00 PM

### Coffee Break
4:00 PM - 4:30 PM

### Oral Session 2: Feature Extraction Method for Medical Images and Medical Video Analysis
4:30 PM - 5:40 PM

**Video-based Motion Expertise Analysis in Simulation-based Surgical Training Using Hierarchical Dirichlet Process Hidden Markov Model**  
Qiang Zhang, Arizona State University  
Baoxin Li, Arizona State University  
4:30 PM - 5:05 PM

**Fast Fractal Stack: Fractal Analysis of Computed Tomography Scans of the Lung**  
Alceu Ferraz Costa, University of São Paulo  
Joe Tekli, University of São Paulo  
Agma Juci Machado Traina, University of São Paulo  
5:05 PM - 5:40 PM

### Discussion and Concluding Remarks
5:40 PM - 6:00 PM

---

**Panel 1: Smart Games**

**Panel Chair:** Abdulmotaleb El Saddik, University of Ottawa, Canada  
**Panelists:**  
Ralf Steinmetz, Darmstadt University of Technology, Germany  
Carsten Griwodz, University of Oslo, Norway  
Frank Nack, University of Amsterdam, Holland  
Aisling Kelliher, Arizona State University, USA  
**Tuesday, November 29, 2011, 2:00 PM - 4:00 PM**  
**Hall:** Arizona Ballroom VI, VII, VIII  
**Twitter Tag:** #mm11psg

**Coffee Break**
4:00 PM - 4:30 PM  
South Foyer/Garden

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**Industrial Exhibit / Technical Demos 1**

**Industrial Exhibit 1**  
**Session Chair:** Shervin Shirmohammadi, University of Ottawa  
**Tuesday, November 29, 2011, 4:30 PM - 6:30 PM**  
**Hall:** South Foyer, West Foyer  
**Twitter Tag:** #mm11ie1

**VOXALEAD: A Scalable Video Search Engine Based On Content**  
Julien Law-To, Exalead  
Gregory Grefenstette, Exalead

**MMSI Talk: an applicative use case of Quaero Media Monitoring & Social Impact**  
Raphaël Blouet, Yacast  
Charlotte Juan, Yacast

**Web-Scale Image Search by Color Sketch**  
Jingdong Wang, Microsoft Research Asia  
Xian-Sheng Hua, Microsoft Research Asia
MuMa: A Scalable Music Search Engine Based On Content Analysis
Arthur Lenoir, Exalead
Rémi Landais, Exalead

Kooaba Interactive Posters
Christian Wengert, kooaba AG
Tobias Jaeggli, kooaba AG
Philippe Messmer, kooaba AG
Till Quack, kooaba AG
Peter Cech, kooaba AG
Cristi Prodan, kooaba AG
Tomas Carneky, kooaba AG
Franco Sebregondi, kooaba AG
David Wisti, kooaba AG

Technical Demos 1
Session Chair: Shervin Shirmohammadi, University of Ottawa
Tuesday, November 29, 2011, 4:30 PM - 6:30 PM
Hall: South Foyer, West Foyer
Twitter Tag: #mm11td1

3D Object Retrieval with Semantic Attributes
Boqing Gong, The Chinese University of Hong Kong
Jianzhuang Liu, The Chinese University of Hong Kong
Xiaogang Wang, The Chinese University of Hong Kong
Xiaoou Tang, The Chinese University of Hong Kong

Robust Hand Gesture Recognition with Kinect Sensor
Zhou Ren, Nanyang Technological University
Jingjing Meng, Nanyang Technological University
Junsong Yuan, Nanyang Technological University
Zhengyou Zhang, Microsoft Research Redmond

SRV-TAGS: An Automatic Tagging and Search System for Sensor-Rich Outdoor Videos
Zhijie Shen, National University of Singapore
Sakire Arslan Ay, National University of Singapore
Seon Ho Kim, University of Southern California

A System for Reconstructing Multiparty Conversation Field based on Augmented Head Motion by Dynamic Projection
Kazuhiro Otsuka, NTT Communication Science Laboratories
Kamil Sebastian Mucha, NTT Communication Science Laboratories
Shiro Kumano, NTT Communication Science Laboratories
Dan Mikami, NTT Communication Science Laboratories
Masafumi Matsuda, NTT Communication Science Laboratories
Junji Yamato, NTT Communication Science Laboratories

Enabling the VJ as Performer with Rhythmic Wearable Interfaces
Andreas Zingerle, Kairus.org
Tyler Freeman, odbol productions

InSPeCT: Integrated Surveillance for Port Container Traffic
David Sadlier, CLARITY: Centre for Sensor Web Technologies
Paul Ferguson, CLARITY: Centre for Sensor Web Technologies
Dian Zhang, CLARITY: Centre for Sensor Web Technologies
Noel E. O'Connor, CLARITY: Centre for Sensor Web Technologies
Hyowon Lee, CLARITY: Centre for Sensor Web Technologies

Cognitive Intervention in Autism Using Multimedia Stimulus
Svetla Venkatesh, Curtin University
Stewart Greenhill, Curtin University
### iCabinet: Stand-alone Implementation of a Method for Preventing Illegal Recording of Displayed Content by Adding Invisible Noise Signals
Takayuki Yamada, Graduate University for Advanced Studies
Seiichi Gohshi, Kogakuin University
Isao Echizen, National Institute of Informatics

### Purposive Hidden-Object Game (P-HOG) Towards Imperceptible Human Computation
Jian Dong, National University of Singapore
Yuzhao Ni, National University of Singapore
Jiashi Feng, National University of Singapore
Shuicheng Yan, National University of Singapore

### StoryImaging: A Media-Rich Presentation System for Textual Stories
Genliang Guan, University of Sydney
Zhiyong Wang, University of Sydney
Xian-Sheng Hua, Microsoft
Dagan Feng, University of Sydney

### TapTell: Understanding Visual Intents On-the-go
Ning Zhang, Ryerson University
Tao Mei, Microsoft Research Asia
Xian-Sheng Hua, Microsoft
Ling Guan, Ryerson University
Shipeng Li, Microsoft Research Asia

### A Mobile Player for Interactive Non-linear Video
Britta Meixner, University of Passau
Johannes Köstler, University of Passau
Harald Kosch, University of Passau

### Real Time Extraction of Body Soft Biometric from 3D Videos
Carmelo Velardo, EURECOM
Jean-Luc Dugelay, EURECOM

### Tele-immersive Gaming for Everybody
Ahsan Arefin, University of Illinois at Urbana-Champaign
Zixia Huang, University of Illinois at Urbana-Champaign
Raoul Rivas, University of Illinois at Urbana-Champaign
Shu Shi, University of Illinois at Urbana-Champaign
Wanmin Wu, University of Illinois at Urbana-Champaign
Klara Nahrstedt, University of Illinois at Urbana-Champaign

### A Home-based Adaptive Mixed Reality Rehabilitation System
Diana Siwiak, School of Arts, Media + Engineering at Arizona State University
Nicole Lehrer, School of Arts, Media + Engineering at Arizona State University
Michael Baran, School of Arts, Media + Engineering at Arizona State University
Yinpeng Chen, School of Arts, Media + Engineering at Arizona State University
Margaret Duff, School of Arts, Media + Engineering at Arizona State University
Todd Ingalls, School of Arts, Media + Engineering at Arizona State University
Thanassis Rikakis, School of Arts, Media + Engineering at Arizona State University

### ClassX Mobile: Region-of-Interest Video Streaming to Mobile Devices with Multi-Touch Interaction
Derek Pang, Stanford University
Sherif Halawa, Stanford University
Ngai-Man Cheung, Stanford University
Bernd Girod, Stanford University

### Sketch2Cartoon: Composing Cartoon Images by Sketching
Changhu Wang, Microsoft Research Asia
Jun Zhang, Biological Intelligence and Information Lab, Shanghai Jiao Tong University
<table>
<thead>
<tr>
<th>Authors</th>
<th>Title</th>
<th>Affiliations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bruce Yang, Microsoft Research Asia</td>
<td><strong>Sensor-rich Video Exploration on a Map Interface</strong></td>
<td>Beomjoo Seo, National University of Singapore</td>
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<td></td>
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<td>Jia Hao, National University of Singapore</td>
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<td>Guanfeng Wang, National University of Singapore</td>
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<tr>
<td>Andrew Au, Simon Fraser University</td>
<td><strong>Ztitch: A Mobile Phone Application for 3D Scene Creation, Navigation, and Sharing</strong></td>
<td>Jie Liang, Simon Fraser University</td>
</tr>
<tr>
<td>Emi Myodo, KDDI R&amp;D Laboratories Inc.</td>
<td><strong>Automatic Comic-like Image Layout System Preserving Image Order and Important Regions</strong></td>
<td>Satoshi Ueno, KDDI R&amp;D Laboratories Inc.</td>
</tr>
<tr>
<td>Koichi Takagi, KDDI R&amp;D Laboratories Inc.</td>
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<td>Shigeyuki Sakazawa, KDDI R&amp;D Laboratories Inc.</td>
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**Art Exhibit**

8:30 AM - 8:00 PM  
Ballroom Foyers
ACM MULTIMEDIA 2011 MAIN CONFERENCE FULL PROGRAM DAY 2

Wednesday, November 30, 2011

KEYNOTE 2

Keynote 2: "U Are Happy Life": Telling The Future's Stories
Speaker: Genevieve Bell, Intel Labs
Wednesday, November 30, 2011, 8:30 AM - 10:00 AM
Hall: Arizona Ballroom
Twitter Tag: #mm11kn2

Coffee Break
10:00 AM - 10:30 AM
South Foyer/Garden

ORAL SESSIONS DAY 2

Research 5: Media Transport And Sharing
Session Chair: Roger Zimmerman, National University of Singapore
Wednesday, November 30, 2011, 10:30 AM - 12:30 PM
Hall: Arizona Ballroom IV
Twitter Tag: #mm11rs5

Towards Peer-Assisted Rendering in Netwroked Virtual Environments
Minhui Zhu, National University of Singapore
Sebastien Mondet, University of Oslo
Géraldine Morin, University of Toulouse
Wei Tsang Ooi, National University of Singapore
Wei Cheng, Manovega Pte. Ltd.

BlueStreaming: Towards Power-Efficient Internet P2P Streaming to Mobile Devices
Yao Liu, George Mason University
Fei Li, George Mason University
Lei Guo, Microsoft
Yang Guo, Alcatel-Lucent
Songqing Chen, George Mason University

Peer-assisted Texture Streaming in Metaverses
Ke Liang, National University of Singapore
Roger Zimmermann, National University of Singapore
Wei Tsang Ooi, National University of Singapore

Cloud Download: Using Cloud Utilities to Achieve High-quality Content Distribution for Unpopular Videos
Yan Huang, Tencent Research
Zhenhua Li, Peking University
Gang Liu, Tencent Research
Yafei Dai, Peking University

Research 6: Media Authoring And Production
Session Chair: Frank Nack, University of Amsterdam
### Generating Story Variants with Constrained Video Recombination
Alberto Piacenza, University of Brescia
Fabrizio Guerrini, University of Brescia
Nicola Adami, University of Brescia
Riccardo Leonardi, University of Brescia
Julie Porteous, Teesside University
Jonathan Teutenberg, Teesside University
Marc Cavazza, Teesside University

### Personalizing Automated Image Annotation using Cross-Entropy
Xirong Li, University of Amsterdam
Efstratios Gavves, University of Amsterdam
Cees G.M. Snoek, University of Amsterdam
Marcel Worring, University of Amsterdam
Arnold W.M. Smeulders, University of Amsterdam

### Cross Media Hyperlinking for Search Topic Browsing
Song Tan, City University of Hong Kong
Chong-Wah Ngo, City University of Hong Kong
Hung-Khoon Tan, University Tunku Abdul Rahman
Lei Pang, City University of Hong Kong

### Creating Personalized Memories from Social Events: Community-Based Support for Multi-Camera Recordings of School Concerts
Rodrigo Laiola Guimarães, CWI: Centrum Wiskunde & Informatica
Pablo Cesar, CWI: Centrum Wiskunde & Informatica
Dick C. A. Bulterman, CWI: Centrum Wiskunde & Informatica
Vilmos Zsombori, Goldsmiths, University of London
Ian Kegel, BT Research & Technology

### Towards Multi-Semantic Image Annotation with Graph Regularized Exclusive Group Lasso
Xiangyu Chen, National University of Singapore
Xiaotong Yuan, National University of Singapore
Shuicheng Yan, National University of Singapore
Jinhui Tang, Nanjing University of Science and Technology
Yong Rui, Microsoft Advanced Technology Center
Tat-Seng Chua, National University of Singapore

### Reading between the Tags to Predict Real-World Size-Class for Visually Depicted Objects in Images
Martha Larson, Delft University of Technology
Christoph Kofler, Delft University of Technology
Alan Hanjalic, Delft University of Technology

### Exploiting the Entire Feature Space with Sparsity for Automatic Image Annotation
Zhigang Ma, University of Trento
Yi Yang, Carnegie Mellon University
Feiping Nie, University of Texas at Arlington
Jasper Uijlings, University of Trento
Nicu Sebe, University of Trento
Colorizing Tags in Tag Cloud: A Novel Query-by-Tag Music Search System
Ju-Chiang Wang, National Taiwan University
Yu-Chin Shih, National Taiwan University
Meng-Sung Wu, Academia Sinica
Hsin-Min Wang, Academia Sinica
Shyh-Kang Jeng, National Taiwan University

Research 8: Media Authoring And Production
Session Chair: Nicu Sebe, University of Trento
Tuesday, November 30, 2011, 10:30 AM - 12:30 PM
Hall: Arizona Ballroom V
Twitter Tag: #mm11rs8

3D Cinematography Principles and Their Applications to Stereoscopic Media Processing
Chun-Wei Liu, National Taiwan University
Tz-Huan Huang, National Taiwan University
Ming-Hsu Chang, National Taiwan University
Ken-Yi Lee, National Taiwan University
Chia-Kai Liang, Lytro Inc.
Yung-Yu Chuang, National Taiwan University

Why Did the Prime Minister Resign? Generation of Event Explanations from Large News Repositories
Frank Nack, University of Amsterdam
Ichiro Ide, Nagoya University

The Director's Lens: An Intelligent Assistant for Virtual Cinematography
Christophe Lino, IRISA/INRIA Rennes
Marc Christie, IRISA/INRIA Rennes
Roberto Ranon, University of Udine
William Bares, Millsaps College

Reliving On Demand: A Total Viewer Experience
Vivek K Singh, University of California, Irvine
Jiebo Luo, Eastman Kodak Company
Dhiraj Joshi, Eastman Kodak Company
Phoury Lei, Eastman Kodak Company
Madirakshi Das, Eastman Kodak Company
Peter Stubler, Eastman Kodak Company

Multimedia Grand Challenge Finals

Alice's Worlds of Wonder: Exploiting Tags to Understand Images in terms of Size and Scale
Christoph Kofler, Delft University of Technology
Martha Larson, Delft University of Technology
Alan Hanjalic, Delft University of Technology

Scalable Mobile Video Question-Answering System with Locally Aggregated Descriptors and Random Projection
Guan-Long Wu, National Taiwan University
Yu-Chuan Su, National Taiwan University
Tzu-Hsuan Chiu, National Taiwan University
Liang-Chi Hsieh, National Taiwan University
Photo Search by Face Positions and Facial Attributes on Touch Devices
Yu-Heng Lei, National Taiwan University
Yan-Ying Chen, National Taiwan University
Lime Iida, National Taiwan University
Bor-Chun Chen, National Taiwan University
Hsiao-Hang Su, National Taiwan University
Winston H. Hsu, National Taiwan University

Towards Textually Describing Complex Video Contents with Audio-Visual Concept Classifiers
Chun Chet Tan, City University of Hong Kong
Yu-Gang Jiang, Fudan University
Chong-Wah Ngo, City University of Hong Kong

Evaluating a Dancer’s Performance using Kinect-based Skeleton Tracking
Dimitrios S. Alexiadis, Centre of Research and Technology Hellas (CERTH)
Philip Kelly, Dublin City University (DCU)
Petros Daras, Centre of Research and Technology Hellas (CERTH)
Noel E. O’Connor, Dublin City University (DCU)
Tamy Boubekeur, Telecom ParisTech (TPT)
Maher Ben Moussa, University of Geneva

Dynamic Social Network for Narrative Video Analysis
Tsung-Hung Tsai, Academia Sinica
Wen-Huang Cheng, Academia Sinica
Yung-Huan Hsieh, Academia Sinica

Enhanced Visualisation of Dance Performance From Automatically Synchronised Multimodal Recordings
Marc Gowing, Dublin City University
Philip Kell, Dublin City University
Noel E O’Connor, Dublin City University
Cyril Concolato, Institut Telecom/Telecom ParisTech
Slim Essid, Institut Telecom/Telecom ParisTech
Jean Lefeuvre, Institut Telecom/Telecom ParisTech
Robin Tourmenenne, Institut Telecom/Telecom ParisTech
Ebroul Izquierdo, Queen Mary, University of London
Vlado Kitanovski, Queen Mary, University of London
Xinyu Lin, Queen Mary, University of London
Qianni Zhang, Queen Mary, University of London

News Browsing System: Multimodal Analysis
Bruno do Nascimento Teixeira, Federal University of Minas Gerais
Júlia Epischina Engrácia de Oliveira, Federal University of Minas Gerais
Filipe Dias Moreira de Souza, Federal University of Minas Gerais
Tiago Oliveira Cunha, Federal University of Minas Gerais
Arnaldo de Albuquerque Araújo, Federal University of Minas Gerais
Christiane Okamoto, Federal University of Minas Gerais
Lucas Figueiredo, Federal University of Minas Gerais
Vinícius de Oliveira Silva, Federal University of Minas Gerais
Igor Calil Loures de Oliveira, Federal University of Minas Gerais

An Audio-driven Virtual Dance-Teaching Assistant
Slim Essid, Institut Telecom / Telecom ParisTech
Yves Grenier, Institut Telecom / Telecom ParisTech
Mounira Maazaoui, Institut Telecom / Telecom ParisTech
Gael Richard, Institut Telecom / Telecom ParisTech
Robin Tourmenenne, robin.tournemenne@wanadoo.fr

Understanding Images with Natural Sentences
Yoshitaka Ushiku, University of Tokyo  
Tatsuya Harada, University of Tokyo / JST PRESTO  
Yasuo Kuniyoshi, University of Tokyo

**A Psychophysical Approach for Real-Time 3D Video Processing**  
Wanmin Wu, University of Illinois at Urbana-Champaign  
Ahsan Arefin, University of Illinois at Urbana-Champaign  
Gregorij Kurillo, University of California at Berkeley  
Pooja Agarwal, University of Illinois at Urbana-Champaign  
Klara Nahrstedt, University of Illinois at Urbana-Champaign  
Ruzena Bajcsy, University of California at Berkeley

**Workshops Day 2**

**Joint ACM Workshop on Modeling and Representing Events (J-MRE'11)**  
**Part 1: International ACM Workshop on Events in Multimedia (EMM11)**  
Workshop Chairs:  
- Ansgar Scherp, University of Koblenz-Landau  
- Ramesh Jain, University of California at Irvine  
- Mohan S. Kankanhalli, National University of Singapore  
- Vasileios Mezaris, Centre for Research and Technology Hellas

**Part 2: International ACM Workshop on Sparse Representation for Event Detection in Multimedia (SRED’11)**  
Workshop Chairs:  
- Huiyu Zhou, Queen’s University Belfast  
- Jianguo Zhang, University of Dundee  
- Liang Wang, National Lab of Pattern Recognition  
- Zhengyou Zhang, Microsoft Research

**Twitter Tag: #mm11jm**

**Session 1: Event Detection From Multimedia Content**  
Session Chair: Vasileios Mezaris, Centre for Research and Technology Hellas  
*10:30 AM - 12:30 PM*

- **Event Detection and Scene Attraction by Very Simple Contextual Cues**  
  Ivan Tankoyeu, University of Trento  
  Javier Paniagua, University of Trento  
  Julian Stöttinger, University of Trento  
  Fausto Giunchiglia, University of Trento  
  *10:30 AM - 11:00 AM*

- **Exploitation of Time Constraints for (Sub-)Event Recognition**  
  Riccardo Mattivi, University of Trento  
  Jasper Uijlings, University of Trento  
  Francesco G.B. De Natale, University of Trento  
  Nicu Sebe, University of Trento  
  *11:00 AM - 11:30 AM*

- **Trajectories Based Descriptor for Dynamic Events Annotation**  
  Nicolas Ballas, CEA, LIST, & CAOR MINES ParisTech  
  Bertrand Delezoide, CEA, LIST  
  Françoise Prêteux, MINES ParisTech  
  *11:00 AM - 11:30 AM*
### Acoustic Super Models for Large Scale Video Event Detection
Robert Mertens, International Computer Science Institute  
Howard Lei, International Computer Science Institute  
Gerald Friedland, International Computer Science Institute  
Ajay Divakaran, SRI International Sarnoff  
11:30 AM - 12:00 PM

### Session 2: Sparse Representation And Event-Based Applications
Session Chair: Ansgar Scherp, University of Koblenz  
2:00 PM - 4:00 PM

### Dynamic Texture Reconstruction from Sparse Codes for Unusual Event Detection in Crowded Scenes
Jingxin Xu, Queensland University of Technology  
Simon Denman, Queensland University of Technology  
Sridha Sridharan, Queensland University of Technology  
Clinton Fookes, Queensland University of Technology  
Rajib Rana, Queensland University of Technology  
2:00 PM - 2:30 PM

### Sequence-Kernel Based Sparse Representation for Amateur Video Summarization
Zheshen Wang, Arizona State University  
Mrityunjay Kumar, Eastman Kodak Company  
Jiebo Luo, Eastman Kodak Company  
Baoxin Li, Arizona State University  
2:30 PM - 3:00 PM

### Finding the Game Flow from Sports Video
Yi Ding, Oklahoma State University  
Guoliang Fan, Oklahoma State University  
3:00 PM - 3:30 PM

### Lifelog Event Management: Crowd Research Case Study
Pil Ho Kim, University of Trento  
Fausto Giunchiglia, University of Trento  
3:30 PM - 4:00 PM

### Keynote Address
Session Chair: Ansgar Scherp, University of Koblenz  
4:00 PM - 4:30 PM

### Event And Story - An Intricate Relationship
Frank Nack, University of Amsterdam  
4:30 PM

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**International ACM Workshop on Social Media (WSM11)**  
Workshop Chairs:  
- Michal Jacovi, IBM Haifa Research Lab  
- Steven C.H. Hoi, Nanyang Technological University  
- Yiannis Kompatsiaris, Informatics and Telematics Institute  
- Jiebo Luo, Kodak Research Labs  
- Konstantinos Tserpes, Harokopio University of Athens  
**Wednesday, November 30, 2011, 10:30 AM - 18:30 PM**  
**Hall: Vaquero E**  
**Twitter Tag: #mm11ws**

**Welcome and Keynote**  
Session Chair: Jiebo Luo, Rochester University  
10:30 AM - 11:25 AM
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:30 AM – 10:35 AM</td>
<td>Welcome</td>
</tr>
<tr>
<td>10:35 AM – 11:25 AM</td>
<td>Mining Social Media - Issues and Challenges</td>
</tr>
<tr>
<td>11:25 AM - 12:40 PM</td>
<td>Session 1: Information Extraction and Content Organization</td>
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<td>12:40 PM - 2:00 PM</td>
<td>Lunch</td>
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<td>2:00 PM - 3:15 PM</td>
<td>Session 2: Location-based approaches</td>
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<td>3:15 PM - 4:05 PM</td>
<td>Keynote</td>
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<td>4:05 PM - 4:30 PM</td>
<td>Coffee Break</td>
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<tr>
<td>4:30 PM - 6:10 PM</td>
<td>Session 3: Social Media Applications and Studies</td>
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### Welcome

**10:30 AM – 10:35 AM**

**Mining Social Media - Issues and Challenges**

Huan Liu, Arizona State University

**10:35 AM – 11:25 AM**

**Session 1: Information Extraction and Content Organization**

Session Chair: Yiannis Kompatsiaris, CERTH – Informatics and Telematics Institute

**11:25 AM - 12:40 PM**

**Using social media to identify events**

XueLiang Liu, EURECOM

Raphaël Troncy, EURECOM

Benoit Huet, EURECOM

**11:25 AM - 11:50 AM**

**Sentiment Analysis of Social Media Content using N-Gram Graphs**

Fotis Aisopos, ICCS, National Technical University of Athens

George Papadakis, ICCS, National Technical University of Athens

Theodora Varvarigou, ICCS, National Technical University of Athens

**11:50 AM - 12:15 PM**

**Laplacian Adaptive Context-based SVM for Video Concept Detection**

Wei Jiang, Eastman Kodak Company

Alexander Loui, Eastman Kodak Company

**12:15 PM - 12:40 PM**

**Lunch**

**12:40 PM - 2:00 PM**

**Vaquero A, B, C**

**2:00 PM - 3:15 PM**

**Session 2: Location-based approaches**

Session Chair: Konstantinos Tserpes, Harokopio University of Athens

**2:00 PM - 3:15 PM**

**Multimodal Location Estimation on Flickr Videos**

Gerald Friedland, International Computer Science Institute

Jaeyoung Choi, International Computer Science Institute

Howard Lei, International Computer Science Institute

**2:00 PM - 2:25 PM**

**IM2MAP: Deriving Maps from Georeferenced Community Contributed Photo Collections**

Ling Xie, UC Merced

Shawn Newsam, UC Merced

**2:25 PM - 2:50 PM**

**Tag Suggestion and Localization for Web Videos by Bipartite Graph Matching**

Wei-Ta Chu, National Chung Cheng University

Cheng-Jung Li, National Chung Cheng University

Yeh-Kai Chou, Industrial Technology Research Institute

**2:50 PM - 3:15 PM**

**Keynote**

Session Chair: Steven C. H. Hoi, Nanyang Technological University

**3:15 PM - 4:05 PM**

**Keynote Talk: Large-scale Social Media Analysis in Facebook**

Rong Yan, Facebook Inc.

**4:05 PM - 4:30 PM**

**South Foyer/Garden**

**4:30 PM - 6:10 PM**

**Session 3: Social Media Applications and Studies**

Session Chair: Roelof van Zwol, Yahoo! Research

**4:30 PM - 6:10 PM**

**Photo Stream Alignment for Collaborative Photo Collection and Sharing in Social Media**
## Session 1

**Session Chair:** Xavier Anguera Miro, Telefonica R&D  
**10:30 AM - 12:30 PM**

### OPENING REMARKS AND INTRODUCTION - The Need for Music Information Retrieval with User-Centered and Multimodal Strategies

Cynthia C.S. Liem, Delft University of Technology  
Meinard Müller, Saarland University & MPI Informatik  
Douglas Eck, Google Inc.  
George Tzanetakis, University of Victoria  
**10:30 AM - 10:55 AM**

### Affective Content Analysis of Music Video Clips

Ashkan Yazdani, EPFL  
Krista Kappeler, EPFL  
Touradj Ebrahimi, EPFL  
**10:55 AM - 11:20 AM**

### A Tempo-Sensitive Music Search Engine With Multimodal Inputs

Yu Yi, National University of Singapore  
**10:55 AM - 11:20 AM**
Yinsheng ZHOU, National University of Singapore
Ye WANG, National University of Singapore

11:20 AM - 11:40 AM

KEYNOTE - Audiovisual Archive Exploitation in the Networked Information Society
Roeland Ordelman, Netherlands Institute for Sound and Vision & University of Twente

11:40 AM - 12:30 PM

Lunch Break And Plenary Poster Session
12:30 PM - 2:00 PM

Vaquero A, B, C

Posters of MIRUM workshop papers will be presented alongside regular and short papers of the main conference.

Session 2
Session Chair: Gaël Richard, Telecom ParisTech, France
2:00 PM - 4:00 PM

Music Identification via Vocabulary Tree with MFCC Peaks
Tianjing Xu, State Key Laboratory of Software Development Environment, Beihang University
Adams Wei Yu, State Key Laboratory of Software Development Environment, Beihang University
Xianglong Liu, State Key Laboratory of Software Development Environment, Beihang University
Bo Lang, State Key Laboratory of Software Development Environment, Beihang University

2:00 PM - 2:25 PM

Finding Geographically Representative Music via Social Media
Charles Parker, Eastman Kodak Company
Dhiraj Joshi, Eastman Kodak Company
Phoury Lei, Eastman Kodak Company
Jiebo Luo, Eastman Kodak Company

2:25 PM - 2:50 PM

Music Genre Classification using Explicit Semantic Analysis
Kamelia Aryafar, Drexel University
Ali Shokoufandeh, Drexel University

2:50 PM - 3:15 PM

Panel: Bridging opportunities for the music and multimedia domains
Moderator:
Cynthia Liem, Delft University of Technology
Panelists:
Ye Wang, National University of Singapore
Jean Bresson, IRCAM
Alan Hanjalic, Delft University of Technology
Gerald Friedland, University of California, Berkeley

3:15 PM - 4:00 PM

Session 3
Session Chair: Ju-Chiang Wang, National Taiwan University, Taiwan
4:30 PM - 6:10 PM

Analyzing Sound Tracings - A Multimodal Approach to Music Information Retrieval
Kristian Nymoen, University of Oslo
Baptiste Caramiaux, IRCAM, CNRS
Mariusz Kozak, University of Chicago
Jim Torrnesen, University of Oslo

4:30 PM - 4:55 PM

Advantages of Nonstationary Gabor Transforms in Beat Tacking
Andre Holzapfel, INESC Porto
Gino Angelo Velasco, University of Vienna
Nicki Holighaus, University of Vienna
Monika Dörfler, University of Vienna
Arthur Flexer, Austrian Research Institute for Artificial Intelligence
### A Musical Mood Trajectory Estimation Method Using Lyrics and Acoustic Features
Naoki Nishikawa, Kyoto University  
Katsutoshi Itoyama, Kyoto University  
Hiromasa Fujihara, National Institute of Advanced Industrial Science and Technology (AIST)  
Masataka Goto, National Institute of Advanced Industrial Science and Technology (AIST)  
Tetsuya Ogata, Kyoto University  
Hiroshi G Okuno, Kyoto University  

### What is a “Musical World”? An Affinity Propagation Approach
Eugenio Tacchini, Università degli Studi di Milano  
Ernesto Damiani, Università degli Studi di Milano  

### Closing Remarks

### Networking of Multimedia Women Event
Event Chair: Klara Nahrstedt, University of Illinois at Urbana-Champaign  
**Wednesday, November 30, 2011, 10:30 AM - 12:30 PM**  
**Hall: Arizona Ballroom I, II, III**  
**Twitter Tag: #mm11nm**

#### Talk 1: When was the last time your project made you smile?: Doing Computer Science that builds Social Capital
Speaker: Svetha Venkatesh, Curtin University, Australia  
**10:30 AM - 11:00 AM**

#### Talk 2: Multimodal Situational Awareness for Societal-scale Emergency Response
Speaker: Nalini Venkatasubramanian, University of California, Irvine, USA  
**11:00 AM - 11:30 AM**

#### Panel and Discussion: Beyond Epsilon Science – Where to Look and How to Realize New Opportunities
Panelists:  
- Dulce B. Ponceleon, IBM Research - Almaden, USA  
- Susanne Boll, University of Oldenburg, Germany  
- Maria Zemankova, National Science Foundation, USA  
- Genevieve Bell, Intel Labs, Intel  
Moderator:  
Klara Nahrstedt, University of Illinois at Urbana-Champaign, USA  
**11:30 AM - 12:30 PM**

### POSTER PLENARY DAY 2

**Poster Plenary Day 2**  
Session Chair: Mei Tao, Microsoft Research  
**Wednesday, November 30, 2011, 12:30 PM - 2:00 PM**  
**Hall: Vaquero A, B, C**  
**Twitter Tag: #mm11pp2**

All papers, including short papers, long papers, workshop papers, and others, will also be presented in the poster plenary sessions on the same day as their regular presentations.

#### Short Papers

Exploiting User Information for Image Tag Refinement
Jitao Sang, Institute of Automation, Chinese Academy of Sciences & China-Singapore Institute of Digital Media  
Jing Liu, Institute of Automation, Chinese Academy of Sciences & China-Singapore Institute of
<table>
<thead>
<tr>
<th>Title</th>
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<tbody>
<tr>
<td><strong>Digital Media</strong></td>
<td>Changsheng Xu, Institute of Automation, Chinese Academy of Sciences &amp; China-Singapore</td>
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<tr>
<td><strong>Known-Item Video Search via Query-to-Modality Mapping</strong></td>
<td>Kong-Wah Wan, Institute for Infocomm Research</td>
</tr>
<tr>
<td><strong>Transfer Tagging from Image to Video</strong></td>
<td>Yang Yang, The University of Queensland</td>
</tr>
<tr>
<td><strong>Detection of Pornographic Content in Internet Images</strong></td>
<td>Srinivasan H Sengamedu, Yahoo! Labs Bangalore</td>
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<tr>
<td><strong>Effective Summarization of Large-Scale Web Images</strong></td>
<td>Chunlei Yang, UNC-Charlotte</td>
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<td><strong>Real-time Human Action Search using Random Forest based Hough Voting</strong></td>
<td>Gang YU, Nanyang Technological University</td>
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<td><strong>Ensemble Multi-Instance Multi-Label Learning Approach for Video Annotation Task</strong></td>
<td>Xin-Shun Xu, Nanjing University &amp; Shandong University</td>
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<td><strong>Nonparametric Bottom-Up Saliency Detection Using Hypercomplex Spectral Contrast</strong></td>
<td>Ce Li, Xi'an Jiaotong University</td>
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<td><strong>Multiclass object detection by combining local appearances and context</strong></td>
<td>LiMin Wang, The Chinese University of Hong Kong</td>
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<tr>
<td><strong>Shared Feature Extraction for Semi-supervised Image Classification</strong></td>
<td>Yong Luo, Peking University</td>
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<tr>
<td><strong>Difficulty Guided Image Retrieval using Linear Multiview Embedding</strong></td>
<td>Yangxi Li, Peking University</td>
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<tr>
<td><strong>Detection and Location of Near-Duplicate Video Sub-Clips by Finding Dense Subgraphs</strong></td>
<td>Tianlong Chen, Institute of Computing Technology Chinese Academy of Sciences</td>
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</table>
| **Query Expansion by Spatial Co-occurrence for Image Retrieval**    | Lingyang Chu, Institute of Computing Technology Chinese Academy of Sciences  
Qingming Huang, Graduate University of Chinese Academy of Sciences |
| **Social Image Tag Recommendation by Concept Matching**              | Aixin Sun, Nanyang Technological University  
Sourav S. Bhowmick, Nanyang Technological University  
Jun-An Chong, Nanyang Technological University |
| **Automatic Image Annotation with Weakly Labeled Dataset**           | Wei Zhang, Fudan University  
Yao Lu, Fudan University  
Xiangyang Xue, Fudan University  
Jianping Fan, Department of Computer Science, UNC-Charlotte |
| **Efficient Approximate Nearest Neighbor Search with Integrated Binary Codes** | Wei Zhang, Institute of Computing Technology, Chinese Academy of Sciences  
Ke Gao, Institute of Computing Technology, Chinese Academy of Sciences  
Yongdong Zhang, Institute of Computing Technology, Chinese Academy of Sciences  
Jintao Li, Institute of Computing Technology, Chinese Academy of Sciences |
| **Content Quality Based Image Retrieval With Multiple Instance Boost Ranking** | Peng Yang, Rutgers University  
Hui Li, Rutgers University  
Qingshan Liu, Rutgers University  
Lin Zhong, Rutgers University  
Dimitris Metaxas, Rutgers University |
| **Detecting Motion Synchrony by Video Tubes**                       | Ying Zheng, Duke University  
Steve Gu, Duke University  
Carlo Tomasi, Duke University |
| **Automatic Image Tagging through Information Propagation in a Query Log Based Graph Structure** | Teresa Bracamonte, University of Chile & Yahoo! Research Latin America  
Barbara Poblete, University of Chile & Yahoo! Research Latin America |
| **Identifying Authoritative Sources of Multimedia Content**          | Lyndon Kennedy, Yahoo! Labs  
Malcolm Slaney, Yahoo! Research |
| **Semantic Point Detector**                                         | Kuiyuan Yang, University of Science and Technology of China  
Lei Zhang, Microsoft Research Asia  
Meng Wang, National University of Singapore  
Hong-Jiang Zhang, Microsoft Advanced Technology Center |
| **Scenic Photo Quality Assessment with Bag of Aesthetics-Preserving Features** | Hsiao-Hang Su, National Taiwan University  
Tse-Wei Chen, National Taiwan University  
Chieh-Chi Kao, National Taiwan University  
Winston H. Hsu, National Taiwan University |
| **Hybrid Image Summarization**                                      | Hao Xu, University of Science and Technology of China  
Jingdong Wang, Microsoft Research Asia |
<table>
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<td>Tomasz Adamek, Telefonica Research</td>
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<td>Nuria Oliver, Telefonica Research</td>
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<td>Pedestrian Detection with Geometric Context from a Single Image</td>
<td>Wang Junqiang, Beijing University of Posts and Telecommunications</td>
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<td>Huadong Ma, Beijing University of Posts and Telecommunications</td>
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<td>Risk Management for Video-on-Demand Servers leveraging Demand Forecast</td>
<td>Di Niu, University of Toronto</td>
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<td>Hong Xu, University of Toronto</td>
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<td>Baochun Li, University of Toronto</td>
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<td>Shuqiao Zhao, UUSee Inc.</td>
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<td>Prefetching Strategy in Peer-assisted Social Video Streaming</td>
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<td>Resource Allocation for Cloud-based Free Viewpoint Video Rendering for Mobile Phones</td>
<td>Dan Miao, University of Science and Technology of China</td>
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<td>Chang Wen Chen, State University of New York at Buffalo</td>
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<td>APRICOD: A Distributed Caching Middleware for Fast Content Discovery of Non-continuous Media Access</td>
<td>Zhen Wei Zhao, NUS Graduate School for Integrative Sciences and Engineering, National University of Singapore</td>
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<td>Wei Tsang Ooi, School of Computing, National University of Singapore</td>
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<td>Robust Image Registration and Tampering Localization Exploiting Bag of Features Based Forensic Signature</td>
<td>Sebastiano Battaito, University of Catania</td>
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<td>Giovanni Puglisi, University of Catania</td>
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<td>Towards Content-based Audio Fragment Authentication</td>
<td>Xiangyang Xue, Fudan University</td>
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<td>Wei Li, Fudan University</td>
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<td>Yue Yin, Fudan University</td>
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<td>Cap Detection for Moving People in Entrance Surveillance</td>
<td>Rui Min, EURECOM</td>
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<td>Jean-Luc Dugelay, EURECOM</td>
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<td>High Efficient Distributed Video Coding with Parallelized Design for Cloud Computing</td>
<td>Han-Ping Cheng, National Taiwan University</td>
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<td>Real-time Decoding for LDPC Based Distributed Video Coding</td>
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<td>Mixing Remote Locations using Shared Screen as Virtual Stage</td>
<td>Shingo Uchihashi, Fuji Xerox Co., Ltd.</td>
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<td>Tsutomu Tanzawa, University of Yamanashi</td>
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<td>Tommaso Gritti, Philips Research</td>
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<td><strong>Consensus-based Cross-correlation</strong></td>
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<td>Eckehard Steinbach, Technische Universität München</td>
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<td><strong>Modeling Motion Visual Perception for Video Quality Assessment</strong></td>
<td>Junyong You, Norwegian University of Science and Technology</td>
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<td><strong>Automatic Object Segmentation from Large Scale 3D Urban Point Clouds through Manifold Embedded Mode Seeking</strong></td>
<td>Zhiding Yu, Hong Kong University of Science and Technology</td>
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<td><strong>Key Object-based Static Video Summarization</strong></td>
<td>Zhiquiang Tian, Institute of Artificial Intelligence and Robotics, Xi'an Jiaotong University</td>
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<td>Nick C. Tang, Academia Sinica</td>
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<td>Jiangbo Lu, Advanced Digital Sciences Center</td>
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<tr>
<td>Multimodal QoE Evaluation in P2P-based IPTV Systems</td>
<td>Deepak Gangadharan, National University of Singapore</td>
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<td>Nalini Venkatasubramanian, University of California, Irvine</td>
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<tr>
<td>Recognizing Interaction Between Human Performers Using 'Key Pose Doublet'</td>
<td>Roger Zimmermann, National University of Singapore</td>
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<td>Once Upon a Time, I Bought a Movie and It Played Everywhere in My Home</td>
<td>Sujoy Kumar Biswas, Indian Statistical Institute</td>
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<td>High-Efficient Software Parallel CAVLC Encoder Based on Programmable Stream Processor</td>
<td>Jun Chai, National University of Defense Technology</td>
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<td>Recognizing Interaction Between Human Performers Using 'Key Pose Doublet'</td>
<td>Huayou Su, National University of Defense Technology</td>
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<td>A Real-time Database Architecture for Motion Capture Data</td>
<td>Chunyuan Zhang, National University of Defense Technology</td>
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<td>Jun Ren, National University of Defense Technology</td>
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<td>Zhang Mingmin, Zhejiang University</td>
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<td>Wang Jiang, City University of Hong Kong</td>
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<td>Pan Zhigeng, Zhejiang University &amp; Hangzhou Normal University</td>
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<td>High-Efficient Software Parallel CAVLC Encoder Based on Programmable Stream Processor</td>
<td>Song Haiyu, Dalian Nationalities University</td>
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<td>A Real-time Database Architecture for Motion Capture Data</td>
<td>Wang Pengjie, Zhejiang University &amp; Dalian Nationalities University</td>
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<td>Jay Geagan, IBM Almaden Research Center</td>
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<tr>
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<td>Lau Rynson W.H, City University of Hong Kong</td>
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<tr>
<td>A Real-time Database Architecture for Motion Capture Data</td>
<td>Dulce Ponceleon, IBM Almaden Research Center</td>
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</table>

November 28 - December 1, 2011
Panel 2: Towards Synergy Between the Open Source and the Research Multimedia Communities
Organizers:
Wei-Tsang Ooi, National University of Singapore
Pablo Cesar, CWI
Panelists:
Ben Moskowitz, OVC & Mozilla Foundation
Zohar Babin, Kaltura
Dick Buterman, CWI & Vrije Universiteit
Rainer Lienhart, University of Augsburg
Robert Richter, Mozilla Foundation
Mathias Lux, Klagenfurt University
Wednesday, November 30, 2011, 2:00 PM - 4:00 PM
Hall: Arizona Ballroom VI, VII, VIII
Twitter Tag: #mm11ts

Doctoral Symposium
Session Chairs:
Yu-Ru Lin, Northeastern University
Vincent Oria, New Jersey Institute of Technology
Wednesday, November 30, 2011, 2:00 PM - 6:30 PM
Hall: Arizona Ballroom I, II, III
Twitter Tag: #mm11ds

Doctoral Symposium 1: Panel - Career Perspective And Job Opportunities For Graduates Of The Multimedia Community
Panelists:
K. Selcuk Candan, Arizona State University
Lyndon Kennedy, Yahoo! Research
Dulce Ponceleón, IBM Almaden
Hari Sundaram, Arizona State University
Rong Yan, Facebook
Roger Zimmerman, National University of Singapore
2:00 PM - 3:30 PM

Doctoral Symposium 2: Poster Session
3:30 PM - 4:45 PM
Poster set-up begins at 12:30 PM. Refreshments will be served during poster session.

From wide-baseline unordered images to path videos
Aveek Shankar Brahmachari, University of South Florida

RAYS: Recall All You See
Sumita Barahmand, University of Southern California

Modeling Tagged Photos for Automatic Image Annotation
Neela Sawant, The Pennsylvania State University

Using Ephemeral Clustering and User Feedback to Improve Image Retrieval for Mobile Devices
Jose G. Moreno, Université de Caen Basse-Normandie

Multimedia Information Retrieval in the Social Web
Teresa Bracamonte, University of Chile & Yahoo! Research Latin America

Video Concept Detection using web-based Training Sources
### CloudTracker: Accelerating Internet Content Distribution by Bridging Cloud Servers and Peer Swarms
Zhenhua Li, Peking University

### Conformal Geometry Videos
Dao T.P. Quynh, Nanyang Technological University

### Objects Detection and Recognition for People with Visual Impairment
Xiaodong Yang, The City College of New York

### Music Genre Classification Using Explicit Semantic Analysis
Kamelia Aryafar, Drexel University

### Dynamic Batch Mode Active Learning
Shayok Chakraborty, Arizona State University

### Intelligent Query Formulation for Mobile Visual Search
Felix Xinnan Yu, Columbia University

### Methods for Sensor-rich Video Management (GeoVid)
Zhijie Shen, National University of Singapore

### Indexing and Visualization of Presentation Videos
Michele Merler, Columbia University

### The Building Blocks of Touch-Based Information Delivery
Troy McDaniel, Arizona State University

### Bilinear deep learning for image classification
Sheng-hua Zhong, The Hong Kong Polytechnic University

### Building Low-Latency Remote Rendering Systems for Interactive 3D Graphics Rendering on Mobile Devices
Shu Shi, University of Illinois at Urbana-Champaign

### Image Search 2.0
Xirong Li, University of Amsterdam

### Beyond Video Searching: Large-scale Web Video Exploration
Song Tan, City University of Hong Kong

### Acropolis: An Operating System for Real-Time Multistreaming Systems
Raoul Rivas, University of Illinois at Urbana-Champaign

### Towards Efficient Resource Utilization in Internet Mobile Streaming
Yao Liu, George Mason University

### Multiple Object Retrieval in Image Databases Using Hierarchical Segmentation Tree
Wei-Bang Chen, The University of Alabama at Birmingham

### A Multimodality Approach towards Video Genre Detection
Richa Tiwari, The University of Alabama at Birmingham

### Robust Image Representation for Efficient Recognition and Retrieval
Xia Li, University of Texas at San Antonio

### 'Seeing' ENF: Natural Time Stamp for Digital Video via Optical Sensing and Signal Processing
Ravi Garg, University of Maryland

### Real-Time Customizable Sound Design Toolkit
Diana Siwiak, School of Arts, Media + Engineering

### Human-centric Approaches in 3D Tele-Immersive Systems
Wanmin Wu, University of Illinois at Urbana-Champaign

### From Multimedia Data to Situations
Vivek K. Singh, University of California, Irvine

### Doctoral Symposium 3: Oral Presentations
4:45 PM - 6:00 PM

### Oral Presentations
From Local Features to Local Regions
Stefan Romberg, University of Augsburg
Synchronized Dissemination Framework for Supporting High-Quality Tele-Immersive Shared Activity  
Zixia Huang, University of Illinois at Urbana-Champaign

Session Management of Correlated Multi-Stream 3D Tele-Immersive Environments  
Ahsan Arefin, University of Illinois at Urbana-Champaign

Local Features for Partial Shape Matching and Retrieval  
Ivan Anselmo Sipiran Mendoza, University of Chile

Coffee  
4:00 PM - 4:30 PM  
South Foyer/Garden

SIGMM BUSINESS MEETING

SIGMM Business Meeting  
Wednesday, November 30, 2011, 4:30 PM - 6:30 PM  
Hall: Arizona Ballroom IV, V

Banquet  
7:30 PM - 10:30 PM  
Arizona Ballroom

Art Exhibit  
8:30 AM - 10:30 PM  
Ballroom Foyers
ACM MULTIMEDIA 2011 MAIN CONFERENCE FULL PROGRAM DAY 3

Thursday, December 1, 2011

**KEYNOTE 3**

**Keynote 3: Digital Media Distribution – The Future**
Speaker: Arnaud Robert, Disney
*Thursday, December 1, 2011, 8:30 AM - 10:00 AM*
*Hall: Arizona Ballroom*
*Twitter Tag: #mm11kn3*

**Coffee Break**
10:00 AM - 10:30 AM
*South Foyer/Garden*

**ORAL SESSIONS DAY 3**

**Research 9: Media analysis and search**
Session Chair: Lexing Xie, ANU
*Thursday, December 1, 2011, 10:30 AM - 12:30 PM*
*Hall: Arizona Ballroom IV*
*Twitter Tag: #mm11rs9*

- **Bilinear Deep Learning for Image Classification**
  Sheng-hua Zhong, The Hong Kong Polytechnic University
  Yan Liu, The Hong Kong Polytechnic University
  Yang Liu, The Hong Kong Polytechnic University

- **Retrieval-based Face Annotation by Weak Label Regularized Local Coordinate Coding**
  Dayong Wang, Nanyang Technological University
  Steven C.H. Hoi, Nanyang Technological University
  Ying He, Nanyang Technological University
  Jianke Zhu, Zhejiang University

- **Learning to Judge Image Search Results**
  Xinmei Tian, University of Science and Technology of China
  Yijuan Lu, Texas State University
  Linjun Yang, Microsoft Research Asia
  Qi Tian, University of Texas at San Antonio

- **Prediction of the Inter-Observer Visual Congruency (IOVC) and Application to Image Ranking**
  Olivier Le Meur, University of Rennes 1
  Thierry Baccino, University of Paris VIII / Lutin
  Aline Roumy, INRIA

**Research 10: Multimedia Systems And Middleware**
Session Chair: Pal Halvorsen, Simular Research
*Thursday, December 1, 2011, 10:30 AM - 12:30 PM*
*Hall: Arizona Ballroom V*
*Twitter Tag: #mm11rs10*
### Modeling 3D Articulated Motions with Conformal Geometry Videos (CGVs)
Dao T.P. Quynh, Nanyang Technological University  
Ying He, Nanyang Technological University  
Xiaoming Chen, Nanyang Technological University  
Jiazhi Xia, Nanyang Technological University  
Qian Sun, Nanyang Technological University  
Steven C.H. Hoi, Nanyang Technological University

### Random Partial Paired Comparison for Subjective Video Quality Assessment via HodgeRank
Qianqian Xu, Chinese Academy of Sciences.  
Tingting Jiang, Peking University.  
Yuan Yao, Peking University.  
Qingming Huang, Chinese Academy of Sciences.  
Bowei Yan, Peking University.  
Weisi Lin, Nanyang Technological University

### Saving Bitrate vs. Pleasing Users: Where is the Break-Even Point in Mobile Video Quality?
Wei Song, Queensland University of Technology  
Dian Tjondronegoro, Queensland University of Technology  
Michael Docherty, Queensland University of Technology

### Celerity: A Low-Delay Multi-Party Conferencing Solution
Xiangwen Chen, Chinese University of Hong Kong  
Minghua Chen, Chinese University of Hong Kong  
Baochun Li, University of Toronto  
Yao Zhao, Alcatel-Lucent  
Yunnan Wu, Facebook Inc.  
Jin Li, Microsoft Research

### Research 11: Media Analysis And Search
Session Chair: Marcel Worring, University of Amsterdam  
Thursday, December 1, 2011, 2:00 PM - 4:00 PM  
Hall: Arizona Ballroom IV  
Twitter Tag: #mm11rs11

### Multiple Feature Hashing for Real-time Large Scale Near-duplicate Video Retrieval
Jingkuan Song, University of Queensland  
Yi Yang, Carnegie Mellon University  
Zi Huang, University of Queensland  
Heng Tao Shen, University of Queensland  
Richang Hong, Hefei University of Technology

### Learning Heterogeneous Data for Hierarchical Web Video Classification
Xianming Liu, Harbin Institute of Technology  
Hongxun Yao, Harbin Institute of Technology  
Rongrong Ji, Harbin Institute of Technology  
Pengfei Xu, Harbin Institute of Technology  
Xiaoshuai Sun, Harbin Institute of Technology  
Qi Tian, University of Texas at San Antonio

### Coached Active Learning for Interactive Video Search
Xiao-Yong Wei, Sichuan University  
Zhen-Qun Yang, Sichuan University

### Learning Concept Bundles for Video Search with Complex Queries
Jin Yuan, National University of Singapore  
Zheng-Jun Zha, National University of Singapore  
Yao-Tao Zheng, Institute for Infocomm Research of Singapore  
Meng Wang, National University of Singapore
Research 12: Multimedia Systems And Middleware 2
Session Chair: Wei-Tsang Ooi, National University of Singapore
Thursday, December 1, 2011, 2:00 PM - 4:00 PM
Hall: Arizona Ballroom V
Twitter Tag: #mm11rs12

**Flicker Effects in Adaptive Video Streaming to Handheld Devices**
Pengpeng Ni, Simula Research Laboratory
Ragnhild Eg, Simula Research Laboratory
Alexander Eichhorn, Simula Research Laboratory
Carsten Griwodz, Simula Research Laboratory
Pal Halvorsen, Simula Research Laboratory

**An Empirical Evaluation of Battery Power Consumption for Streaming Data Transmission to Mobile Devices**
Yao Liu, George Mason University
Lei Guo, Microsoft
Fei Li, George Mason University
Songqing Chen, George Mason University

**Tennis Real Play: an Interactive Tennis Game with Models from Real Videos**
Ju-Jhsin Lai, National Taiwan University
Chieh-Li Chen, National Taiwan University
Po-Chen Wu, National Taiwan University
Chieh-Chi Kao, National Taiwan University
Shao-Yi Chien, National Taiwan University

**Implementation of the Discrete Wavelet Transform and Multiresolution Analysis in the Encrypted Domain**
Peijia Zheng, School of Information Science and Technology, Sun Yat-Sen University
Jiwu Huang, School of Information Science and Technology, Sun Yat-Sen University

Coffee Break
4:00 PM - 4:30 PM
South Foyer/Garden

Research 13: Media Analysis And Search
Session Chair: Shinichi Satoh, NII
Thursday, December 1, 2011, 4:30 PM - 6:30 PM
Hall: Arizona Ballroom IV
Twitter Tag: #mm11rs13

**Contextual Synonym Dictionary for Visual Object Retrieval**
Wenbin Tang, Tsinghua University
Rui Cai, Microsoft Research Asia
Zhiwei Li, Microsoft Research Asia
Lei Zhang, Microsoft Research Asia

**Contextual Image Search**
Wenhao Lu, Tsinghua University
Jingdong Wang, Microsoft Research Asia
Xian-Sheng Hua, Microsoft Research Asia
Shengjin Wang, Tsinghua University
Shipeng Li, Microsoft Research Asia

**MUSIZ: A Generic Framework for Music Resizing with Stretching and Cropping**
### Robust Visual Reranking via Sparsity and Ranking Constraints
Nobuyuki Morioka, University of New South Wales & NICTA
Jingdong Wang, Microsoft Research Asia

#### Research 14: Applications
**Session Chair:** Ichiro Ide, Nagoya University  
**Thursday, December 1, 2011, 4:30 PM - 6:30 PM**  
**Hall:** Arizona Ballroom V  
**Twitter Tag:** #mm11rs14

1. **Motor Learning using a Kinematic-Vibrotactile Mapping targeting Fundamental Movements**
   - Troy McDaniel, Arizona State University
   - Morris Goldberg, Arizona State University
   - Daniel Villanueva, Arizona State University
   - Lakshmie Narayan Viswanathan, Arizona State University
   - Sethuraman Panchanathan, Arizona State University

2. **Affect-based Adaptive Presentation of Home Videos**
   - Xiaohong Xiang, National University Of Singapore
   - Mohan S Kankanhalli, National University Of Singapore

3. **Example-based Video Remixing Support System**
   - Naoko Nitta, Osaka University
   - Noboru Babaguchi, Osaka University

4. **Towards Low Bit Rate Mobile Visual Search with Multiple-Channel Coding**
   - Rongrong Ji, Peking University
   - Ling-Yu Duan, Peking University
   - Jie Chen, Peking University
   - Hongxun Yao, Harbin Institute of Technology
   - Yong Rui, Microsoft China
   - Shih-Fu Chang, Columbia University
   - Wen Gao, Peking University

### Workshops Day 3

#### International ACM Workshop On Ubiquitous Meta User Interfaces (Ubi-MUI'11)
**Workshop Chairs:**  
Ali Asghar Nazari Shirehjini, Technical University of Berlin  
Sahin Albayrak, Technical University Berlin  
Abdulsalam Yassin, Alcatel Lucent  
**Thursday, December 1, 2011, 10:30 AM - 12:15 PM**  
**Hall:** Vaquero G1  
**Twitter Tag:** #mm11ub

#### Opening Remark
**10:30 AM - 10:35 AM**

**Control Smart Homes Easily with Simple Touch**
Sokratis Kartakis, Foundation for Research and Technology Hellas (FORTH), Institute of Computer Science  
Margherita Antona, Foundation for Research and Technology Hellas (FORTH), Institute of Computer Science

Scottsdale, Arizona, USA
Constantine Stephanidis, Foundation for Research and Technology, Institute of Computer Science / University of Crete

**Gamifying Intelligent Environments**
Yefeng Liu, Waseda University
Todorka Alexandrova, Waseda University
Tatsuo Nakajima, Waseda University

**Real Time Object Detection Using A Novel Adaptive Color Thresholding Method**
Mahdi Bagheri, Shamsipour Institute Of Technology
Mehdi Madani, Islamic Azad University Of Qazvin
Ramin Sahba, Shamsipour Institute Of Technology
Amin Sahba, Shamsipour Institute Of Technology

**A Personal Assistive System for Nutrient Intake Monitoring**
Gregorio Villalobos, University of Ottawa
Rana Almaghrabi, University of Ottawa
Behnoosh Hariri, University of Ottawa
Shervin Shirmohammadi, University of Ottawa

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**ACM Workshop on Social and Behavioural Networked Media Access (SBNMA'11)**

Workshop Chairs:
Naeem Ramzan, Queen Mary University of London
Fei Wang, IBM T.J. Watson Research Center
Charalampos Z. Patrikakis, Technological Educational Institute of Piraeus
Peng Cui, Tsinghua University
Nikos Doulamis, National Technical University of Athens
Shiqiang Yang, Tsinghua University

*Thursday, December 1, 2011, 10:30 AM - 6:00 PM*
*Hall: Vaquero F*
*Twitter Tag: #mm11sb*

**Welcome**
*10:30 AM - 10:40 AM*

**SBNMA Paper Session 1**
Session Chair: Peng Cui, Tsinghua University, China
*10:40 AM - 12:30 PM*

**Graph-based Recognition in Photo Collections using Social Semantics**
Markus Brenner, Queen Mary University of London
Ebroul Izquierdo, Queen Mary University of London
*10:40 AM - 11:00 AM*

**Event Analytics via Social Media**
Yuheng Hu, Avaya Labs Research
Ajita John, Avaya Labs Research
Doree Duncan Seligmann, Avaya Labs Research
*11:00 AM - 11:20 AM*

**Pursuing the Holy Grail by Interrelating User Intentions and Bag of Visual Words to Perform Retrieval Adaptation**
Marian Kogler, Klagenfurt University
Mathias Lux, Klagenfurt University
*11:20 AM - 11:40 AM*

**Using Media Related User Profiles to Personalize Multimedia Access over Social Networks**
Lemonia Argyriou, National Technical University of Athens
Charalampos Z Patrikakis, Technological Educational Institute of Piraeus
Stuart CM Porter, CTVC Ltd / TrueTube
Nikolaos Papaoulakis, National Technical University of Athens
Christina Androulaki, National Technical University of Athens
### 11:40 AM - 12:00 AM

**Measuring Media-based Social Interactions Provided by Smartphone Applications in Social Networks**
Alan Keller Gomes, University of São Paulo  
Maria da Graça Campos Pimentel, University of São Paulo

**Discussion**

**Lunch Break**

**SBNMA Paper Session 2**
Session Chair: Charalampos Z. Patrikakis, Technological Education Institute of Piraeus

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Authors</th>
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</table>
| 2:00 PM - 2:20 PM | A Hierarchical, Multi-modal Approach for Placing Videos on the Map using Millions of Flickr Photographs | Pascal Kelm, TU Berlin (Communication Systems Group)  
Sebastian Schmiedeke, TU Berlin (Communication Systems Group)  
Thomas Sikora, TU Berlin (Communication Systems Group)  |
| 2:20 PM - 2:40 PM | Improving Video Classification via YouTube Video Co-Watch Data       | John Ruoyu Zhang, Columbia University  
Yang Song, Google, Inc  
Thomas Leung, Google, Inc |
| 2:40 PM - 3:00 PM | Gaze Movement Inference for User Adapted Image Annotation and Retrieval | Navid Haji Mirza, Queen Mary University of London  
Michael Proulx, Queen Mary University of London  
Ebroul Izquierdo, Queen Mary University of London |
| 3:00 PM - 3:20 PM | Employing Clustering Algorithms to Create User Groups for Personalized Context Aware Services Provision | Athanasios S. Voulodimos, National Technical University of Athens  
Charalampos Z. Patrikakis, Technological Education Institute of Piraeus  
Pantelis N. Karamolegkos, National Technical University of Athens  
Anastasios D. Doulamis, Technical University of Crete  
Emmanuel S. Sardis, National Technical University of Athens |

### 3:20 PM - 4:00 PM

**Keynote Address: Learning the Social Pulses of a City from User-Generated Information Sources**
Speaker: Tat-Seng Chua, National University of Singapore  
Session Chair: Fei Wang, IBM T.J.Watson Research Center

### 4:00 PM - 4:30 PM

**Coffee Break**

### South Foyer/Garden

**SBNMA Paper Session 3**
Session Chair: Shiqiang Yang, Tsingua University

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<tr>
<th>Time</th>
<th>Title</th>
<th>Authors</th>
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| 4:30 PM - 5:10 PM | Adaptive Multi-view Video Streaming over P2P Networks Considering Quality of Experience | Saadet Sedef Savas, Koc University  
Ahmet Murat Tekalp, Koc University  
Cihat Goktug Gurler, Koc University |
### Social and Behavioural Media Access: A Survey
Naeem Ramzan, Queen Mary University of London
Peng Cui, Tsinghua University
Fei Wang, IBM T.J.Watson Research Center
Shiqiang Yang, Tsinghua University

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<td>4:30 PM - 4:50 PM</td>
<td>Social and Behavioural Media Access: A Survey</td>
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### Keynote Address: Social Networked Media: Advances and Trends
Speaker: Ebroul Izquierdo, Queen Mary University of London
Session Chair: Naeem Ramzan, Queen Mary University of London

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<td>5:10 PM - 5:50 PM</td>
<td>Keynote Address: Social Networked Media: Advances and Trends</td>
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### Closing Remarks

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<td>5:50 PM - 6:00 PM</td>
<td>Closing Remarks</td>
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### Joint ACM Workshop on Human Gesture and Behavior Understanding (J-HGBU’11)

**Part 1: International ACM Workshop on Social Signal Processing (SSPW’11)**

Workshop Chairs:
- Maja Pantic, Imperial College London
- Alex Pentland, MIT
- Alessandro Vinciarelli, University of Glasgow

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<td>Hall: Vaquero E</td>
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<td>Twitter Tag: #mm11jh</td>
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### Joint ACM Workshop on Multimedia access to 3D Human Objects (MA3HO’11)

Workshop Chairs:
- Rita Cucchiara, Università di Modena e Reggio Emilia
- Mohamed Daoudi, TELECOM Lille
- Alberto del Bimbo, Università di Firenze

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<td>Hall: Vaquero E</td>
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### Person Authentication using 3D Human Motion
Felipe Gomez-Caballero, Tokyo Institute of Technology
Takahiro Shinozaki, Tokyo Institute of Technology & Chiba University
Sadaoki Furui, Tokyo Institute of Technology
Koichi Shinoda, Tokyo Institute of Technology

**Estimation and Utilization of Articulations in Recovering Non-rigid Structure from Motion using Motion Subspaces**
Rohith MV, University of Delaware
Chandra Kambhamettu, University of Delaware

### Human Action Recognition using Multiple Views: A Comparative Perspective on Recent Developments
Michael B. Holte, Aalborg University
Cuong Tran, University of California, San Diego
Mohan M. Trivedi, University of California, San Diego
Thomas B. Moeslund, Aalborg University

### Fully Automatic 3D Facial Expression Recognition using a Region-Based Approach
Pierre Lemaire, Ecole Centrale de Lyon, LIRIS
Boulbaba Ben Amor, Telecom Lille 1, LIFL
Mohsen Ardabilian, Ecole Centrale de Lyon, LIRIS
Liming Chen, Ecole Centrale de Lyon, LIRIS
Mohamed Daoudi, Telecom Lille 1, LIFL

### 3DPeS: 3D People Dataset for Surveillance and Forensics
Davide Baltieri, University of Modena and Reggio Emilia
Roberto Vezzani, University of Modena and Reggio Emilia
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<th>Time</th>
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<th>Speaker(s)</th>
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<tbody>
<tr>
<td>9:00</td>
<td>3D Partial Face Matching using Local Shape Descriptors</td>
<td>Stefano Berretti, Università degli Studi di Firenze</td>
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<td>Alberto del Bimbo, Università degli Studi di Firenze</td>
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<td>Pietro Pala, Università degli Studi di Firenze</td>
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<td>9:45</td>
<td>Multi-stage Feature Point Detection for 3D Human Data</td>
<td>Xiang Pan, Department of Computer Science</td>
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<td>Alexander Agathos, N/A</td>
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<td>10:30</td>
<td>Human Motion Classification and Management Based on Mocap Data Analysis</td>
<td>Harshad Kadu, University of Southern California</td>
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<td>Maychen Kuo, University of Southern California</td>
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<td>C.-C. Jay Kuo, University of Southern California</td>
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<td>11:15</td>
<td>3D Perceptual Shape Feature-based Body Parts Classification and Pose Estimation</td>
<td>Gang Hu, Dalhousie University</td>
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<td>Qigang Gao, Dalhousie University</td>
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<td>12:00</td>
<td>Landmark Recognition and Retrieval: From 2D to 3D</td>
<td>Xian Xiao, National Lab of Pattern Recognition, Institute of Automation, CAS, Beijing</td>
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<td>ChangSheng Xu, National Lab of Pattern Recognition, Institute of Automation, CAS, Singapore</td>
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<td>JinQiao Wang, National Lab of Pattern Recognition, Institute of Automation, CAS, Beijing</td>
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<td>Min Xu, University of Technology, Sydney 123 Broadway &amp; National Lab of Pattern Recognition, Institute of Automation, CAS, Beijing</td>
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<td>13:00</td>
<td>The Florence 2D/3D Hybrid Face Dataset</td>
<td>Andrew D. Bagdanov, Media Integration and Communication Center, University of Florence</td>
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<td>Alberto Del Bimbo, Media Integration and Communication Center, University of Florence</td>
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<td>Iacopo Masi, Media Integration and Communication Center, University of Florence</td>
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<td>13:45</td>
<td>The Sounds of Social Life: Naturalistic (Acoustic) Observation Sampling</td>
<td>Matthias R. Mehl, University of Arizona</td>
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<td>Fenne grosse Deters, University of Arizona</td>
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<td>14:30</td>
<td>Computational Study of Human Communication Dynamic</td>
<td>Louis-Philippe Morency, University of Southern California</td>
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<td>15:15</td>
<td>A Survey of Perception and Computation of Human Beauty</td>
<td>Hatice Gunes, Queen Mary University of London</td>
</tr>
<tr>
<td>16:00</td>
<td>Behavioral Signal Processing for Understanding (distressed) Dyadic Interactions: Some Recent Developments</td>
<td>Panayiotis G. Georgiou, University of Southern California</td>
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<td>Matthew P. Black, University of Southern California</td>
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<td>Shrikanth S. Narayanan, University of Southern California</td>
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<td>16:45</td>
<td>Incorporating Uncertainty in a Layered HMM Architecture for Human Activity Recognition</td>
<td>Michael Glodek, University of Ulm</td>
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<td>Lutz Bigalke, University of Ulm</td>
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<td>Martin Schels, University of Ulm</td>
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<td>Friedhelm Schwenker, University of Ulm</td>
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<td>17:00</td>
<td>Multimodal Recognition of Personality during Short Self-Presentations</td>
<td>Ligia Batrinca, University of Trento</td>
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<td>Bruno Lepri, MIT and FBK</td>
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<td>Fabio Pianesi, FBK</td>
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<td>17:15</td>
<td>Automatic Recognition of Coordination Level in an Imitation Task</td>
<td>Emilie Delaherche, ISIR</td>
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<td>Mohamed Chetouani, ISIR</td>
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<td><strong>International ACM Workshop on Multimedia Technologies for Distance Learning (MTDL'11)</strong></td>
<td>Workshop Chairs: Rynson Lau, CUHK, Timothy Shih, NCU, Frederick Li, Durham University, Neil Yen, Waseda University. <em>Thursday, December 1, 2011, 2:00 PM - 5:45 PM</em></td>
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<tr>
<td><strong>Regular Paper Session</strong></td>
<td>Session Chair: Neil Yen, Waseda University, Japan. <em>2:00PM - 4:05PM</em></td>
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<tr>
<td><strong>Interactive Mixed Reality for Collaborative Remote Laboratories</strong></td>
<td>Benjamin Jailly, Telecom Saint-Etienne, Christophe Gravier, Telecom Saint-Etienne, Marius Preda, Telecom SudParis, Jacques Fayolle, Telecom Saint-Etienne</td>
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<tr>
<td><strong>A Novel Framework for Distance Education using Asynchronous Interaction</strong></td>
<td>Sujal Wattamwar, Tata Consultancy Services Limited, Tavleen Oberoi, Tata Consultancy Services Limited, Hiranmay Ghosh, Tata Consultancy Services Limited</td>
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<tr>
<td><strong>Discovering Small-World in Association Link Networks For Web-based Learning</strong></td>
<td>Shunxiang Zhang, Shanghai University, Xiangfeng Luo, Shanghai University, Junyu Xuan, Shanghai University, Xue Chen, Shanghai University, Weimin Xu, Shanghai University</td>
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<tr>
<td><strong>A User Evaluation Framework for Web-Based Learning Systems</strong></td>
<td>Ke Niu, Beijing Institute of Technology, Wei Chen, Beijing Institute of Technology, Zhendong Niu, Beijing Institute of Technology, Peipei Gu, Beijing Institute of Technology, Yi Li, Beijing Institute of Technology, Zhilei Huang, Beijing Institute of Technology</td>
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<tr>
<td><strong>Coffee Break</strong></td>
<td>4:05 PM - 4:30 PM</td>
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<tr>
<td><strong>Invited Paper Session</strong></td>
<td>Session Chair: Wei Chen, Beijing Institute of Technology, China. <em>4:30 PM - 5:45 PM</em></td>
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<tr>
<td><strong>Interactive Tutoring of Cooking Activities with Personalized Multimedia Recipe Search</strong></td>
<td>Qing Li, City University of Hong Kong, Xudong Mao, City University of Hong Kong, Haoran Xie, City University of Hong Kong</td>
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<td><strong>Game-Based Concept Visualization for Learning Programming</strong></td>
<td>Frederick Li, University of Durham, Christopher Watson, University of Durham</td>
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<td><strong>Discovery of Implicit Correlation between Shared Information in an Open Environment</strong></td>
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Twitter Tag: #mm11
Neil Y. Yen, Waseda University  
Qun Jin, Waseda University

International ACM Workshop on Automated Media Analysis and Production for Novel TV Services (AIEMPro 2011)  
Workshop Chairs:  
Sid-Ahmed Berrani, France Telecom  
Alberto Messina, RAI - Centre for Research and Technological Innovation  
*Thursday, December 1, 2011, 2:00 PM - 6:30 PM*  
*Hall: Vaquero G2*  
*Twitter Tag: #mm11ai*

<table>
<thead>
<tr>
<th>Opening remarks:</th>
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<tbody>
<tr>
<td>Alberto Messina, RAI - Centre for Research and Technological Innovation</td>
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<tr>
<td>Sid-Ahmed Berrani, Orange Labs - France Telecom</td>
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<tr>
<td>2:00 PM - 2:15 PM</td>
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<tr>
<td>Session 1: Media Content Structuring and Indexing</td>
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<td>Session Chair: Alberto Messina, RAI Centre for Research and Technological Innovation</td>
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<td>2:15 PM - 4:00 PM</td>
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<td>Sequence-based Kernels for Online Concept Detection in Video</td>
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<td>Werner Bailer, JOANNEUM RESEARCH</td>
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<td>2:15 PM - 2:45 PM</td>
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<td>News Story Clustering from Both What and How Aspects: Using Bag of Word Model and Affinity Propagation</td>
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<td>Wei-Ta Chu, National Chung Cheng University</td>
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<td>Chao-Chin Huang, National Chung Cheng University</td>
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<td>Wen-Fang Cheng, Industrial Technology Research Institute</td>
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<td>From Audio Recurrences to TV Program Structuring</td>
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<td>Alina Elma Abduraman, Orange Labs - France Telecom</td>
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<td>Sid-Ahmed Berrani, Orange Labs - France Telecom</td>
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<td>Jean-Bernard Rault, Orange Labs - France Telecom</td>
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<td>Olivier Le Blouch, Orange Labs - France Telecom</td>
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<td>Coffee Break</td>
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<td>4:00 PM - 4:30 PM</td>
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<td>South Foyer/Garden</td>
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<td>Session 2: Media Production and Retrieval Systems and Applications</td>
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<td>Session Chair: Sid-Ahmed Berrani, Orange Labs - France Telecom</td>
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<td>4:30 PM - 6:00 PM</td>
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<td>Speech Recognition Tools in a Media Retrieval System</td>
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<td>Mike Matton, VRT-medialab</td>
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<td>Karel Braeckman, VRT-medialab</td>
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<td>4:30 PM - 5:00 PM</td>
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<td>Picture-in-Picture Copy Detection Using Spatial Coding Techniques</td>
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<td>Sanjay Purushotham, University of Southern California</td>
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<td>Qi Tian, University of Texas at San Antonio</td>
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<td>C.-C. Jay Kuo, University of Southern California</td>
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<td>5:00 PM - 5:30 PM</td>
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<tr>
<td>Produce. Annotate. Archive. Repurpose - Accelerating the Composition and Metadata Accumulation of TV Content</td>
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<td>Robert Knauf, Chemnitz University of Technology</td>
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</tbody>
</table>

Scottsdale, Arizona, USA
**Industrial Exhibit / Technical Demos 2**

<table>
<thead>
<tr>
<th>Industrial Exhibit 2</th>
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<tbody>
<tr>
<td>Session Chair: Roger Zimmermann, National University of Singapore</td>
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<tr>
<td><strong>Thursday, December 1, 2011, 10:30 AM - 12:30 PM</strong></td>
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<tr>
<td>Hall: South Foyer, West Foyer</td>
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<tr>
<td><strong>Twitter Tag: #mm11te2</strong></td>
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<tr>
<td><strong>Towards A Real Time Public Transport Awareness System: Case Study In Dublin</strong></td>
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<td>Eric Bouillet, IBM Research</td>
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<td>Luca Gasparini, IBM Research</td>
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<td>Olivier Verscheure, IBM Research</td>
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<tr>
<td><strong>ARA: The Active Reading Application</strong></td>
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<td>Gene Golovchinksy, FX Palo Alto Laboratory, Inc.</td>
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<td>Scott Carter, FX Palo Alto Laboratory, Inc.</td>
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<td>Anthony Dunnigan, FX Palo Alto Laboratory, Inc.</td>
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<tr>
<td><strong>myUnity: A new Platform to Support Communication in the Modern Workplace</strong></td>
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<td>Jacob T Biehl, FX Palo Alto Laboratory, Inc.</td>
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<td>Thea Turner, FX Palo Alto Laboratory, Inc.</td>
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<td>William van Melle, FX Palo Alto Laboratory, Inc.</td>
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<td>Andreas Girgensohn, FX Palo Alto Laboratory, Inc.</td>
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<tr>
<th>Technical Demos 2</th>
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<tr>
<td>Session Chair: Roger Zimmermann, National University of Singapore</td>
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<td>Hall: South Foyer, West Foyer</td>
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<td><strong>Twitter Tag: #mm11td2</strong></td>
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<td><strong>Galaxy Browser: Exploratory Search of Web Videos</strong></td>
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<td>Lei Pang, City University of Hong Kong</td>
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<td>Song Tan, City University of Hong Kong</td>
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<td>Hung Khoon Tan, University Tunku Abdul Rahman</td>
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<td>Chong Wah Ngo, City University of Hong Kong</td>
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<td><strong>A Mobile Location Search System with Active Query Sensing</strong></td>
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<td>Felix X. Yu, Columbia University</td>
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<td>Rongrong Ji, Columbia University</td>
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<td>Tongtao Zhang, Columbia University</td>
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<td>Shih-Fu Chang, Columbia University</td>
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<td><strong>Collaborative Authoring of Serious Games for Health</strong></td>
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<td>Florian Mehm, TU Darmstadt, Multimedia Communications Lab - KOM</td>
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<td>Sandro Hardy, TU Darmstadt, Multimedia Communications Lab - KOM</td>
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<td>Stefan Göbel, TU Darmstadt, Multimedia Communications Lab - KOM</td>
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<tr>
<td>Ralf Steinmetz, TU Darmstadt, Multimedia Communications Lab - KOM</td>
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<td><strong>Capturing a Great Photo via Learning from Community-Contributed Photo Collections</strong></td>
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<td>Haojie Li, Dalian University of Technology</td>
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<td>Changing Video Arrangement for Constructing Alternative Stories</td>
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<td>Visual-based Plant Species Identification from Crowdsourced Data</td>
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<td>Dynamic Media Show Drivable by Semantics</td>
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<td>SIRE: A Social Image Retrieval Engine</td>
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<td>Processing of Multimedia Data using the P2G Framework</td>
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<td>PositionIt - An Image-based Remote Target Localization System on Smartphones</td>
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<td>Low-cost Creation of a 3D Interactive Museum Exhibition</td>
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<td>Interactive Rich Reading: Enhanced Book Reading Experience with a Conversational Agent</td>
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### Poster Plenary Day 3

**Poster Plenary Day 3**
- **Session Chair:** Bernard Merialdo, EURECOM
- **Thursday, December 1, 2011, 12:30 PM - 2:00 PM**
- **Hall:** Vaquero A, B, C
- **Twitter Tag:** #mm11pp3

All papers, including short papers, long papers, workshop papers, and others, will also be presented in the poster plenary sessions on the same day as their regular presentations.

<table>
<thead>
<tr>
<th>Short Papers</th>
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<tbody>
<tr>
<td>Rafael Ballagas, Nokia Research Center</td>
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<tr>
<td>Glenda Revelle, University of Arkansas</td>
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<td>Hayes Raffle, Nokia Research Center</td>
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<td>Hiroshi Horii, Nokia Research Center</td>
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<td>Mirjana Spasojevic, Nokia Research Center</td>
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<tr>
<td><strong>Hierarchical Video Browsing with a 3D Carousel</strong></td>
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<td>Klaus Schoeffmann, Klagenfurt University</td>
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<td>Manfred del Fabro, Klagenfurt University</td>
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<td><strong>COZI: Crowdsourced and Content-based Zoomable Video Player</strong></td>
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<tr>
<td>Axel Carlier, IRIT - ENSEEIHT, University of Toulouse</td>
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<td>Arash Shafiei, IRIT - ENSEEIHT, University of Toulouse</td>
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<td>Julien Badie, IRIT - ENSEEIHT, University of Toulouse</td>
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<td>Salim Bensiali, IRIT - ENSEEIHT, University of Toulouse</td>
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<td>Wei Tsang Ooi, National University of Singapore</td>
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<tr>
<td><strong>The Director's Lens: An Intelligent Assistant for Virtual Cinematography</strong></td>
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<td>Christophe Lino, IRISA/INRIA Rennes</td>
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<td>Marc Christie, IRISA/INRIA Rennes</td>
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<td>Roberto Ranon, HCI Lab, University of Udine</td>
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<td>William Bares, Millsaps College</td>
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<tr>
<td><strong>Video2GPS: A Demo of Multimodal Location Estimation on Flickr Videos</strong></td>
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<tr>
<td>Gerald Friedland, International Computer Science Insitute</td>
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<td>Jaeyoung Choi, International Computer Science Insitute</td>
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<tr>
<td>Adam Janin, International Computer Science Insitute</td>
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<tr>
<td><strong>Towards a Privacy Preserving Personal Photo Album Manager with Semantic Classification</strong></td>
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<td>Alexis Fesnin, CNAM/CEDRIC</td>
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<td>Valerie Gouet-Brunet, CNAM/CEDRIC</td>
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<td>Scott Kominen, New Jersey Institute of Technology</td>
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<td>Vincent Oria, New Jersey Institute of Technology</td>
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<td>Jichao Sun, New Jersey Institute of Technology</td>
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<td><strong>Million-scale Near-duplicate Video Retrieval System</strong></td>
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<td>Yang Cai, Zhejiang University</td>
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<td>Linjun Yang, Microsoft Research Asia</td>
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<td>Wei Ping, Tsinghua University</td>
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<td>Fei Wang, Microsoft Bing</td>
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<td>Tao Mei, Microsoft Research Asia</td>
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<td>Xian-Sheng Hua, Microsoft Bing</td>
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<td>Shipeng Li, Microsoft Research Asia</td>
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<tr>
<td><strong>Mobile Product Search with Bag of Hash Bits</strong></td>
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<td>Junfeng He, Columbia University</td>
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<td>Tai-Hsu Lin, Columbia University</td>
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<td>Learning Frame Relevance for Video Classification</td>
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<td>Large Scale Image Search with Geometric Coding</td>
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<td>Clothes Search in Consumer Photos via Color Matching and Attribute Learning</td>
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<td>A Fast MAP Adaptation Technique for GMM-supervisor-based Video Semantic Indexing Systems</td>
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<td>Compositional Object Pattern: A New Model For Album Event Recognition</td>
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<td>Learning from Search Engine and Human Supervision for Web Image Search</td>
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<td>Semi-Supervised Face Image Retrieval using Sparse Coding with Identity Constraint</td>
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<td>Level Influence of Spatial Pyramid Matching in Object Classification</td>
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<td>Ensemble Approach Based on Conditional Random Field for Multi-Label Image and video Annotation</td>
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<td>Refining Local Descriptors by Embedding Semantic Information for Visual Categorization</td>
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<td>Common Visual Pattern Discovery via Graph Matching</td>
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</tbody>
</table>
| Environmental Sound Classification for Scene Recognition Using Local Discriminant Bases and HMM | Feng Su, Nanjing University  
Li Yang, Nanjing University  
Tong Lu, Nanjing University  
Gongyou Wang, Nanjing University |
| Semi-Supervised Manifold Ordinal Regression for Image Ranking       | Yang Liu, Hong Kong Polytechnic University  
Yan Liu, Hong Kong Polytechnic University  
Shenghua Zhong, Hong Kong Polytechnic University  
Keith C.C. Chan, Hong Kong Polytechnic University |
| Blurred Image Region Detection and Classification                    | Bolan Su, National University of Singapore  
Shijian Lu, Institute for Infocomm Research  
Chew Lim Tan, National University of Singapore |
| Human Group Activity Analysis with Fusion of Motion and Appearance Information | Zhongwei Cheng, Graduate University of Chinese Academy of Sciences  
Lei Qin, Institute of Computing Technology, CAS  
Qingming Huang, Graduate University of Chinese Academy of Sciences & Institute of Computing Technology, CAS  
Shuqiang Jiang, Institute of Computing Technology, CAS  
Shuicheng Yan, National University of Singapore  
Qi Tian, University of Texas at San Antonio |
| Exploring Latent Class Information for Image Retrieval using the Bag-of-Feature Model | Lingqiao Liu, Australian National University  
Lei Wang, University of Wollongong |
| Combining Latent Semantic Learning and Reduced Hypergraph Learning for Semi-Supervised Image Categorization | Zhiwu Lu, Peking University  
Yuxin Peng, Peking University |
| Optimal Batch Selection for Active Learning in Multi-label Classification | Shayok Chakraborty, Arizona State University  
Vineeth Balasubramanian, Arizona State University  
Sethuraman Panchanathan, Arizona State University |
| Extracting Intentionally Captured Regions Using Point Trajectories   | Yuta Nakashima, Osaka University  
Noboru Babaguchi, Osaka University |
| Exploring Self-Similarities of Bag-of-Features for Image Classification | Chih-Fan Chen, Research Center for IT Innovation, Academia Sinica  
Yu-Chiang Frank Wang, Research Center for IT Innovation, Academia Sinica |
| Non-rigid 3D Model Retrieval Using Multi-Scale Local Features        | Pengjie Li, Beijing University of Posts and Telecommunication  
Huadong Ma, Beijing University of Posts and Telecommunication  
Anlong Ming, Beijing University of Posts and Telecommunication |
| Marginal-based Visual Alphabets for Local Image Descriptors Aggregation | Miriam Redi, EURECOM  
Bernard Merialdo, EURECOM |
| Modeling Multimedia Contents through Probabilistic Feature Signatures | Christian Beecks, RWTH Aachen University  
Anca Maria Ivanescu, RWTH Aachen University  
Steffen Kirchhoff, RWTH Aachen University  
Thomas Seidl, RWTH Aachen University |
<p>| Bag-of-colors for Improved Image Search                              | Christian Wengert, kooaba AG |</p>
<table>
<thead>
<tr>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Asymmetric Hamming Embedding</strong></td>
<td>Mihir Jain, INRIA Rennes, Herve Jegou, INRIA Rennes</td>
</tr>
<tr>
<td><strong>Spatially-coherent Pyramid Matching Based on Max-pooling</strong></td>
<td>Xiangang Cheng, Nanyang Technological University, Liang-Tien Chia, Nanyang Technological University</td>
</tr>
<tr>
<td><strong>Text and Image Subject Classifiers: Dense Works Better</strong></td>
<td>Daan T. J. Vreeswijk, University of Amsterdam, Bouke Huurnink, University of Amsterdam</td>
</tr>
<tr>
<td><strong>Automatic Concept-to-Query Mapping for Web-based Concept Detector Training</strong></td>
<td>Damian Borth, University of Kaiserslautern, Adrian Ulges, German Research Center for Artificial Intelligence (DFKI), Thomas Michael Breuel, University of Kaiserslautern</td>
</tr>
<tr>
<td><strong>Hypergraph Spectral Hashing for Similarity Search of Social Image</strong></td>
<td>Yueting Zhuang, Zhejiang University, Yang Liu, Zhejiang University, Fei Wu, Zhejiang University, Yin Zhang, Zhejiang University, Jian Shao, Zhejiang University</td>
</tr>
<tr>
<td><strong>Selecting the Best Faces to Index Presentation Videos</strong></td>
<td>Michele Merler, Columbia University, John R Kender, Columbia University</td>
</tr>
<tr>
<td><strong>A Biologically Inspired Computational Model for Image Saliency Detection</strong></td>
<td>Sheng He, School of Automation, Northwestern Polytechnical University, Junwei Han, School of Automation, Northwestern Polytechnical University, Xintao Hu, School of Automation, Northwestern Polytechnical University, Ming Xu, School of Automation, Northwestern Polytechnical University, Lei Guo, School of Automation, Northwestern Polytechnical University, Tianming Liu, Department of Computer Science, Bioimaging Research Center, the University of Georgia</td>
</tr>
<tr>
<td><strong>Unsupervised Fast Anomaly Detection in Crowds</strong></td>
<td>Xiaoshuai Sun, Harbin Institute of Technology, Hongxun Yao, Harbin Institute of Technology, Rongrong Ji, Harbin Institute of Technology, Xianming Liu, Harbin Institute of Technology, Pengfei Xu, Harbin Institute of Technology</td>
</tr>
<tr>
<td><strong>Video Indexing and Recommendation Based on Affective Analysis of Viewers</strong></td>
<td>Sicheng Zhao, Harbin Institute of Technology, Hongxun Yao, Harbin Institute of Technology, Xiaoshuai Sun, Harbin Institute of Technology, Pengfei Xu, Harbin Institute of Technology, Xianming Liu, Harbin Institute of Technology, Rongrong Ji, Harbin Institute of Technology</td>
</tr>
<tr>
<td><strong>Eventscapes: Visualizing Events over Time with Emotive Facets</strong></td>
<td>Brett Adams, Curtin University, Dinh Phung, Curtin University, Svetla Venkatesh, Curtin University</td>
</tr>
<tr>
<td><strong>Signature-Image-Based Event Analysis for Personal Photo Albums</strong></td>
<td>Minh-Son Dao, University of Trento, Duc-Tien Dang-Nguyen, University of Trento</td>
</tr>
<tr>
<td>Title</td>
<td>Authors</td>
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<tr>
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<td>------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Leveraging Collective Wisdom for Web Video Retrieval through Heterogeneous Community Discovery</td>
<td>Francesco G.B. De Natale, University of Trento Lin Pang, Chinese Academy of Sciences Juan Cao, Chinese Academy of Sciences Yongdong Zhang, Chinese Academy of Sciences Shouxun Lin, Chinese Academy of Sciences</td>
</tr>
<tr>
<td>Automatic Preview Generation of Comic Episodes for Digitized Comic Search</td>
<td>Keiichiro Hoashi, KDDI R&amp;D Laboratories Inc. Chihiro Ono, KDDI R&amp;D Laboratories Inc. Daisuke Ishii, Waseda University Hiroshi Watanabe, Waseda University</td>
</tr>
<tr>
<td>2D Geon Based Generic Object Recognition</td>
<td>Xiangqian Yu, New Jersey Institute of Technology Vincent Oria, New Jersey Institute of Technology Pierre Gouton, Université de Bourgogne Geneviève Jomier, Université de Paris-Dauphine</td>
</tr>
<tr>
<td>Image Annotation by Composite Kernel Learning with Group Structure</td>
<td>Ying Yuan, Zhejiang University Fei Wu, Zhejiang University Yueting Zhuang, Zhejiang University Jian Shao, Zhejiang University</td>
</tr>
<tr>
<td>Video-to-Shot Tag Allocation by Weighted Sparse Group Lasso</td>
<td>Xiaofeng Zhu, The University of Queensland Zi Huang, The University of Queensland Heng Tao Shen, The University of Queensland</td>
</tr>
<tr>
<td>Extracting Key Frames from Consumer Videos Using Bi-layer Group Sparsity</td>
<td>Zheshen Wang, Arizona State University Mrityunjay Kumar, Eastman Kodak Company Jiebo Luo, Eastman Kodak Company Baoxin Li, Arizona State University</td>
</tr>
<tr>
<td>Spatial Pooling for Transformation Invariant Image Representation</td>
<td>Xia Li, University of Texas at San Antonio Yan Song, University of Science and Technology of China Yijuan Lu, Texas State University Qi Tian, University of Texas at San Antonio</td>
</tr>
<tr>
<td>Multi-Feature pLSA for Combining Visual Features in Image Annotation</td>
<td>Rui Zhang, Ryerson University Lei Zhang, Microsoft Research Asia Xin-Jing Wang, Microsoft Research Asia Ling Guan, Ryerson University</td>
</tr>
<tr>
<td>Tag-Based Social Image Search with Visual-Text Joint Hypergraph Learning</td>
<td>Yue Gao, Tsinghua University Meng Wang, National University of Singapore Huanbo Luan, National University of Singapore Jialie Shen, Singapore Management University Shuicheng Yan, National University of Singapore Dacheng Tao, University of Technology, Sydney</td>
</tr>
<tr>
<td>Integrating Rich Information for Video Recommendation with Multi-Task Rank Aggregation</td>
<td>Xiaojian Zhao, Beihang University Guangda Li, National University of Singapore Meng Wang, National University of Singapore Jin Yuan, National University of Singapore</td>
</tr>
<tr>
<td>Session Title</td>
<td>Authors</td>
</tr>
<tr>
<td>---------------</td>
<td>---------</td>
</tr>
</tbody>
</table>
| **Quantifying Human Reconstruction Accuracy for VoxelCarving in a Sporting Environment** | Zheng-Jun Zha, National University of Singapore  
Zhoujun Li, Beihang University  
Tat-Seng Chua, National University of Singapore |
| **Time-aware Co-Training for Indoors Localization in Visual Lifelogs** | Vladislavs Dovgalecs, University of Bordeaux  
Remi Megret, University of Bordeaux  
Yannick Berthoumieu, University of Bordeaux |
| **Automatic Sentence Generation from Images** | Yoshitaka Ushiku, The University of Tokyo  
Tatsuya Harada, The University of Tokyo / JST PRESTO  
Yasu Kuniyoshi, The University of Tokyo |
| **Audio-Visual Fusion Using Bayesian Model Combination for Web Video Retrieval** | Vasant Manohar, Raytheon BBN Technologies  
Pradeep Natarajan, Raytheon BBN Technologies  
Prem Natarajan, Raytheon BBN Technologies |
| **Enriching and Localizing Semantic Tags in Internet Videos** | Lamberto Ballan, University of Florence  
Marco Bertini, University of Florence  
Giuseppe Serra, University of Florence |
| **Scene Segmentation of Wedding Party Videos by Scenario-based Matching with Example Videos** | Kazuki Sawai, Nagoya University  
Tomokazu Takahashi, Gifu Shotoku Gakuen University  
Daisuke Deguchi, Nagoya University  
Ichiro Ide, Nagoya University  
Hiroshi Murase, Nagoya University |
| **Content-aware Photo-on-photo Composition for Consumer Photos** | Aibo Tian, University of Texas at Austin  
Xuemei Zhang, Hewlett-Packard Labs  
Daniel R. Tretter, Hewlett-Packard Labs |
| **PhotoFeel: Feeling Your Photo Collection with Graph-based Audiovisual Flocking** | Cheng-Te Li, National Taiwan University  
Hsun-Ping Hsieh, National Taiwan University  
Shou-De Lin, National Taiwan University |
| **Learning to Produce 3D Media from a Captured 2D Video** | Minwoo Park, Eastman KODAK Company  
Jiebo Luo, Eastman KODAK Company  
Andrew Gallagher, Eastman KODAK Company  
Majid Rabbani, Eastman KODAK Company |
| **A Tool for Authoring Unambiguous Links from Printed Content to Digital Media** | Andreas Girgensohn, FX Palo Alto Laboratory  
Frank Shipman, Texas A&M University  
Lynn Wilcox, FX Palo Alto Laboratory  
Qiong Liu, FX Palo Alto Laboratory  
Chunyuan Liao, FX Palo Alto Laboratory  
Yuichi Oneda, Fuji Xerox |
| **Interactive Digital Scrapbook Generation for Travel Photos Based on Design Principles of** | |
Typography
Jung-Yu Yeh, National Taiwan University
Min-Chun Hu, Academia Sinica & National Taiwan University
Wen-Huang Cheng, Academia Sinica
Ja-Ling Wu, National Taiwan University

Augmented Makeover based on 3D Morphable Model
Patricia Wang, Intel Labs China
Xiaofeng Tong, Intel Labs China
Yangzhou Du, Intel Labs China
Jianguo Li, Intel Labs China
Wei Hu, Intel Labs China
Yimin Zhang, Intel Labs China

Static and Dynamic Video Summaries
Yingbo Li, EURECOM
Bernard Merialdo, EURECOM
Mickael Rouvier, University of Avignon
Georges Linares, University of Avignon

INDUSTRIAL PANEL

Industrial Panel: Innovating the Multimedia Experience
Organizers & Moderators:
Khaled El-Maleh, Qualcomm Inc.
Haohong Wang, TCL Research America
Panelists:
Susie Wee, Vice President and Chief Technology and Experience Officer of Collaboration and Communication at Cisco Systems
Heather Yu, Director, Media Networking Lab, Huawei Tech USA
James D. Johnston, IEEE Distinguished Lecturer, Audio Technology Pioneer
Zhengyou Zhang, Principal Researcher at Microsoft, Affiliate Professor at University of Washington

Thursday, December 1, 2011, 2:00 PM - 4:00 PM
Hall: Arizona Ballroom VI, VII, VIII
Twitter Tag: #mm11ip

Coffee Break
4:00 PM - 4:30 PM
South Foyer/Garden

Art Exhibit
8:30 AM - 6:30 PM
Ballroom Foyers
### MM’11 Travel Awardees

<table>
<thead>
<tr>
<th>Award</th>
<th>Name</th>
<th>University</th>
</tr>
</thead>
<tbody>
<tr>
<td>SIGMM</td>
<td>Stefan Romberg</td>
<td>University of Augsburg</td>
</tr>
<tr>
<td>Google</td>
<td>Ivan Sipiran</td>
<td>University of Chile</td>
</tr>
<tr>
<td>Qualcomm</td>
<td>Shenghua Zhong</td>
<td>Hong Kong Polytechnic University</td>
</tr>
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<td>UTD</td>
<td>Song Tan</td>
<td>City University of Hong Kong</td>
</tr>
<tr>
<td>ASU</td>
<td>Xirong Li</td>
<td>University of Amsterdam</td>
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<td>NSF</td>
<td>Zixia Huang</td>
<td>University of Illinois at Urbana-Champaign</td>
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<td>NSF</td>
<td>Ahsan Arefin</td>
<td>University of Illinois at Urbana-Champaign</td>
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<td>NSF</td>
<td>Xiaodong Yang</td>
<td>City College of New York</td>
</tr>
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<td>NSF</td>
<td>Shu Shi</td>
<td>University of Illinois at Urbana-Champaign</td>
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<td>NSF</td>
<td>Felix Yu</td>
<td>Columbia University</td>
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<td>NSF</td>
<td>Xia Li</td>
<td>University of Texas at San Antonio</td>
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<td>NSF</td>
<td>Neela Sawant</td>
<td>Pennsylvania State University</td>
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<td>NSF</td>
<td>Raoul Rivas</td>
<td>University of Illinois at Urbana-Champaign</td>
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<tr>
<td>NSF</td>
<td>Wanmin Wu</td>
<td>University of Illinois at Urbana-Champaign</td>
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<tr>
<td>NSF</td>
<td>Michele Merler</td>
<td>Columbia University</td>
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<td>NSF</td>
<td>Yao Liu</td>
<td>George Mason University</td>
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<tr>
<td>NSF</td>
<td>Vivek Singh</td>
<td>University of California, Irvine</td>
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<tr>
<td>NSF</td>
<td>Troy McDaniel</td>
<td>Arizona State University</td>
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<tr>
<td>NSF</td>
<td>Richa Tiwari</td>
<td>University of Alabama at Birmingham</td>
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<tr>
<td>NSF</td>
<td>Wei-Bang Chen</td>
<td>University of Alabama at Birmingham</td>
</tr>
</tbody>
</table>
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NOTES
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Hyatt Regency Scottsdale Resort and Spa
At Gainey Ranch

DIRECTIONS

From Phoenix Sky Harbor Int'l Airport: Exit the airport following the signs to 202 East. Take the 202 East to 101 North. Continue on 101 North to the Via De Ventura Exit and make a left. Travel West for approximately 2 1/2 miles (Via De Ventura turns into Doubletree Ranch Road). The Hyatt Regency Scottsdale Resort and Spa will be on the right hand side just before Scottsdale Road.
FLOOR PLAN OF HOTEL

Scottsdale, Arizona, USA