



# ACM Multimedia 2011



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Arizona, USA

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2011

<http://www.acmmm11.org>



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## 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, Huawei, 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 to 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.

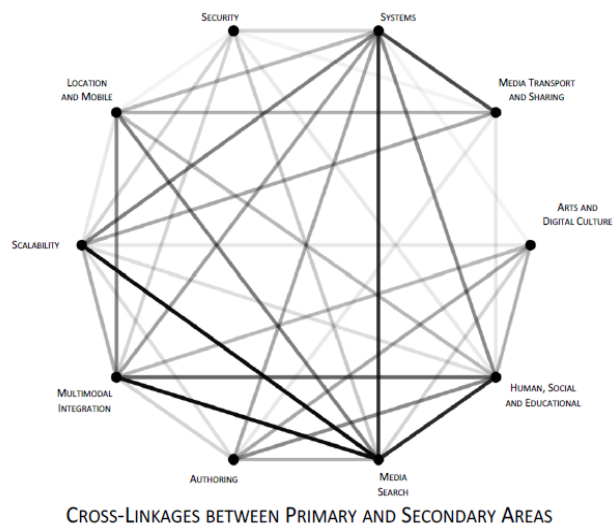
**K. Selçuk Candan**  
**Sethuraman (Panch) Panchathan**  
**Balakrishnan (Prabha) Prabhakaran**  
*ACM MM’11 General Chairs*

## 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

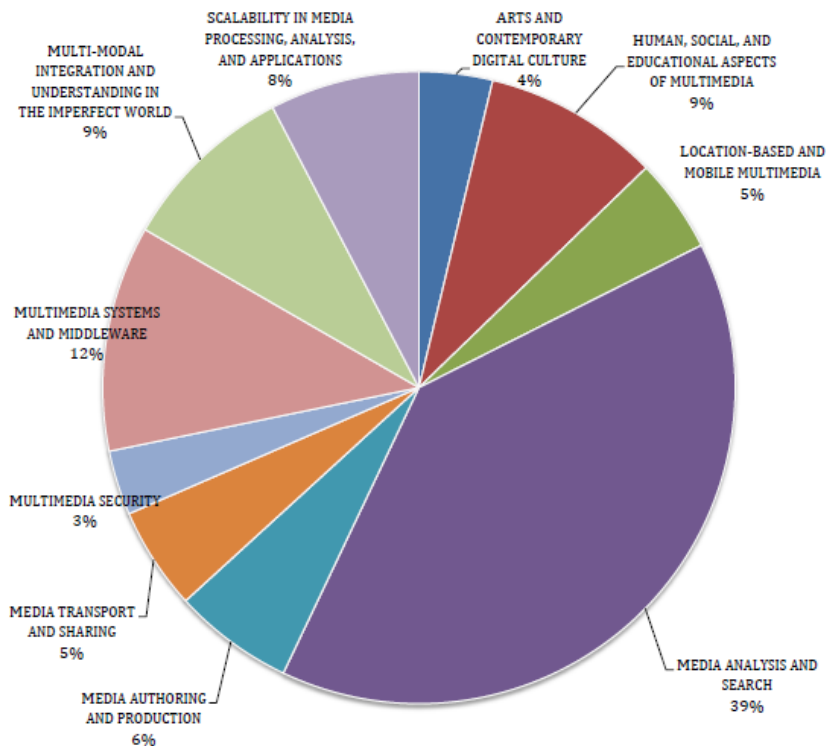


The areas — chosen in consultation with the broad SIG Multimedia community — reflect core research areas (e.g. multimedia systems and middleware), as well as different multimedia research contexts (e.g. location-based mobile multimedia). Typically, each area had two area chairs managing the review process; 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.

## MESSAGE FROM THE TECHNICAL PROGRAM CHAIRS

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*



## MESSAGE FROM THE WORKSHOP CHAIRS

This year ACM Multimedia experiments a new workshop format such that the workshops 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*



## ACM MULTIMEDIA 2011 CONFERENCE ORGANIZATION

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Sethuraman Panchanathan (*Arizona State University, USA*)  
Balakrishnan Prabhakaran (*University of Texas at Dallas, USA*)

**Local Arrangement Chairs:** Vineeth Nallure Balasubramanian (*Arizona State University, USA*)  
Baoxin Li (*Arizona State University, USA*)

**Technical Program Committee Chairs:** Wu-Chi Feng (*Portland State University, USA*)  
Nicu Sebe (*University of Trento, Italy*)  
Hari Sundaram (*Arizona State University, USA*)

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Svetha Venkatesh (*Curtin University, Australia*)  
Michelle Zhou (*IBM Research, USA*)

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Ajay Divakaran (*Sarnoff Corporation, USA*)

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Borko Furht (*Florida Atlantic University, USA*)

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Pablo Cesar (*CWI, Netherlands*)

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Shu-Ching Chen (*Florida International University, USA*)

**Industrial Panels Chairs:** Khaled El-Maleh (*Qualcomm, USA*)  
Haohong Wang (*TCL Research America, USA*)

## ACM MULTIMEDIA 2011 PROGRAM COMMITTEES

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Gang Hua (*IBM Research, USA*)  
Daniel Gatica-Perez (*Idiap Research Institute, Switzerland*)

### Location-Based and Mobile Multimedia:

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Radek Grzeszczuk (*Nokia Research Center Palo Alto, USA*)  
Ton Kalker (*Huawei Technologies, USA*)  
Stephan Kopf (*University of Mannheim, Germany*)  
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Ye-Kui Wang (*Huawei Technologies, USA*)  
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Yu Zheng (*Microsoft Research Asia, China*)

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Lei Chen (*Hong Kong University of Science & Technology, China*)

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Jun Yang (*Carnegie Mellon University, USA*)  
Xiangmin Zhou (*CSIRO, Australia*)  
Xiaofang Zhou (*University of Queensland, Australia*)

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Marco Bertini (*University of Florence, Italy*)  
Alexander Hauptmann (*Carnegie Mellon University, USA*)

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 Yinpeng Chen (*Arizona State University, USA*)  
 Stefanie Nowak (*Fraunhofer IDMT, Germany*)  
 Tamara Berg (*Stony Brook University, USA*)  
 Daragh Byrne (*Dublin City University, Ireland*)  
 Josep Casas (*Technical University of Catalonia, Spain*)  
 Rita Cucchiara (*University of Modena, Italy*)  
 Fernando de la Torre (*Carnegie Mellon University, USA*)  
 Abdulmotaleb El Saddik (*University of Ottawa, Canada*)  
 Benoit Huet (*Eurecom, France*)  
 Yu-Gang Jiang (*Columbia University, USA*)  
 Michael Lew (*Leiden University, The Netherlands*)  
 Rainer Lienhart (*Augsburg University, Germany*)  
 Wei-Hao Lin (*Google Inc., USA*)  
 Suzanne Little (*Open University, UK*)  
 Joao Magalhaes (*NOVA University of Lisbon, Portugal*)  
 Vasileios Mezaris (*ITI-CERTH, Greece*)  
 Adrian Ulges (*DFKI, Germany*)  
 Remco Veltkamp (*Utrecht University, The Netherlands*)  
 Rong Yan (*Facebook, USA*)  
 Ichiro Ide (*Nagoya University, Japan*)

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 Bernard Merialdo (*Eurecom, France*)  
 Marcel Worring (*University of Amsterdam, The Netherlands*)  
 Qi Tian (*University of Texas at San Antonio, USA*)  
 Kiyoharu Aizawa (*University of Tokyo, Japan*)

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 Xavier Anguera (*Telefonica R&D, Spain*)  
 Yiannis Avrithis (*NTUA, Greece*)  
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 Mei Han (*Google, Inc., USA*)  
 Allan Hanbury (*Vienna University of Technology, Austria*)  
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Hayley Hung (*University of Amsterdam, The Netherlands*)  
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Jiebo Luo (*University of Rochester, USA*)  
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Frank Nack (*University of Amsterdam, The Netherlands*)  
Paul Natsev (*IBM Research, USA*)  
Chong Wah Ngo (*City University of Hong Kong, China*)  
Noel O'Connor (*CLARITY, Ireland*)  
Bo Qiu (*Institute for Infocomm Research, Singapore*)  
Shinichi Satoh (*NII, Japan*)  
Behzad Shahraray (*AT&T Labs Research, USA*)  
Heng Tao Shen (*University of Queensland, Australia*)  
Jialie Shen (*Singapore Management University, Singapore*)  
Alan Smeaton (*Dublin City University, Ireland*)  
Julian Stottinger (*Vienna University of Technology, Austria*)  
Hao Tang (*HP Labs, USA*)  
Jinhui Tang (*Nanjing University of Science and Technology, China*)  
Jasper Uijlings (*University of Trento, Italy*)  
Koen Van de Sande (*University of Amsterdam, The Netherlands*)  
Roelof van Zwol (*Yahoo! Research, USA*)  
Jun Wang (*IBM Research, USA*)  
Meng Wang (*National University of Singapore, Singapore*)  
Ye Wang (*National University of Singapore, Singapore*)  
Lynn Wilcox (*FX PAL, USA*)  
Xiao Wu (*Southwest Jiaotong University, China*)  
Zhipeng Wu (*University of Tokyo, Japan*)  
Dong Xu (*Nanyang Technical University, Singapore*)  
Eric Zavesky (*AT&T Labs Research, USA*)  
Zheng-Jun Zha (*National University of Singapore, Singapore*)  
Cha Zhang (*Microsoft Research, USA*)  
Lei Zhang (*Microsoft Research Asia, China*)

**Media Authoring and Production Chairs:**

Susanne Boll (*University of Oldenburg, Germany*)  
Dick Bulterman (*CWI, The Netherlands*)

**Media Authoring and Production:**

Cyril Concolato (*Telecom ParisTech, France*)  
Ritendra Datta (*Google Inc., USA*)  
Andreas Girsensohn (*FX PAL, USA*)  
Luiz Fernando Gomes Soares (*PUC-RIO, Brasil*)  
Fons Kuijk (*CWI, The Netherlands*)  
Rodrigo Laiola Guimaraes (*CWI, The Netherlands*)  
Qian Lin (*HP Labs, USA*)

Wei-Hao Lin (*Google Inc., USA*)  
Feng Liu (*Portland State University, USA*)  
Frank Nack (*University of Amsterdam, The Netherlands*)  
Maria Pimentel (*ICMC-USP, Brasil*)  
Cecile Roisin (*Grenoble University – INRIA, France*)  
Lloyd Rutledge (*Open University, The Netherlands*)  
Ansgar Scherp (*University of Koblenz-Landau, Germany*)  
Jacco van Ossenbruggen (*VU University, The Netherlands*)

**Multimedia Systems and Middleware Chairs:**

Pål Halvorsen (*University of Oslo, Norway*)  
Wei-Tsang Ooi (*National University of Singapore, Singapore*)

**Multimedia Systems and Middleware:**

Dewan Tanvir Ahmed (*University of Ottawa, Canada*)  
Laszlo Boszormenyi (*Klagenfurt University, Austria*)  
Vincent Charvillat (*IRIT - University of Toulouse, France*)  
Sheng-Wei Chen (*Academia Sinica, Taiwan*)  
Yen-Kuang Chen (*Intel, USA*)  
Touradj Ebrahimi (*EPFL, Switzerland*)  
Alexander Eichhorn (*Simula Research Lab, Norway*)  
Romulus Grigoras (*University of Toulouse, France*)  
Ravindra Guntur (*National University of Singapore, Singapore*)  
Hermann Hellwagner (*Klagenfurt University, Austria*)  
Andreas Mauthe (*Lancaster University, UK*)  
Ketan Mayer-Patel (*UNC-Chapel Hill, USA*)  
Sebastien Mondet (*University of Oslo, Norway*)  
Klara Nahrstedt (*University of Illinois at Urbana-Champaign, USA*)  
Nabil Sarhan (*Wayne State University, USA*)  
Karsten Schwan (*Georgia Institute of Technology, USA*)  
Timothy Shih (*National Central University, Taiwan*)  
Ralph Steinmetz (*TU Darmstadt, Germany*)  
Jingtao Wen (*Tsinghua University, China*)  
Chuan Wu (*University of Hong Kong, China*)  
Ja-Ling Wu (*National Taiwan University, Taiwan*)  
Michael Zink (*University of Massachusetts Amherst, USA*)

**Media Transport and Sharing Chairs:**

Reza Rejaie (*University of Oregon, USA*)  
Surendar Chandra (*FX PAL, USA*)

**Media Transport and Sharing:**

Kevin Almeroth (*University of California Santa Barbara, USA*)  
Grenville Armitage (*Swinburne Univ. of Technology, Australia*)  
Nina Bhatti (*HP Labs, USA*)  
David Choffnes (*University of Washington, USA*)  
Mark Claypool (*Worcester Polytechnic Institute, USA*)  
Walid Dabbous (*INRIA, France*)  
Wu-Chi Feng (*Portland State University, USA*)  
Tristan Henderson (*University of St. Andrews, UK*)



Cheng-Hsin Hsu (*Deutsche Telekom, Germany*)  
Sugih Jamin (*University of Michigan, USA*)  
Sebastian Kaune (*TU Darmstadt, Germany*)  
Dejan Kostic (*EPFL, Switzerland*)  
Charles (Buck) Krasic (*Google Inc., USA*)  
Baochun Li (*University of Toronto, Canada*)  
Nazanin Magharei (*University of Oregon, USA*)  
Sue Moon (*KAIST, South Korea*)  
Misha Rabinovich (*Case Western Reserve University, USA*)  
Sanjay Rao (*Purdue University, USA*)  
Kave Salamatian (*University of Savoy, France*)  
Subhabrata Sen (*AT&T Labs, USA*)  
Anees Shaikh (*IBM T. J. Watson Research Center, USA*)  
Nalini Venkatasubramanian (*University of California Irvine, USA*)  
Joerg Widmer (*IMDEA, Spain*)  
Roger Zimmermann (*National University of Singapore, Singapore*)

**Multimedia Security Chairs:**

Qibin Sun (*Institute for Infocomm Research, Singapore*)  
Tian-Tsong Ng (*Institute for Infocomm Research, Singapore*)

**Multimedia Security:**

Feng Bao (*Institute for Infocomm Research, Singapore*)  
Li Bin (*Shenzen University, China*)  
Rainer Böhme (*University of Munster, Germany*)  
Ee-Chien Chang (*National University of Singapore, Singapore*)  
Robert Deng (*Singapore Management University, Singapore*)  
Gwenael Doerr (*Technicolor, France*)  
Sabu Emmanuel (*Nanyang Technological University, Singapore*)  
Xinting Gao (*Institute for Infocomm Research, Singapore*)  
Alex Kot (*Nanyang Technological University, Singapore*)  
Ching-Yung Lin (*IBM Research, USA*)  
Siwei Lyu (*SUNY Albany, USA*)  
Ee Sin Ng (*Cambridge University, UK*)  
Yun-Qing Shi (*NJIT, USA*)  
Tieniu Tan (*Chinese Academy of Sciences, China*)  
Min Wu (*University of Maryland, USA*)

**Human, Social, and Educational Aspects of Multimedia Chairs:**

Massimo Zancanaro (*Fondazione Bruno Kessler, Italy*)  
Mor Naaman (*Rutgers University, USA*)

**Human, Social, and Educational Aspects of Multimedia:**

Elisabeth Andre (*University of Augsburg, Germany*)  
Tico Ballagas (*Nokia Research Palo Alto, USA*)  
Frank Bentley (*Motorola Mobility Applied Research Center, USA*)  
K. Selçuk Candan (*Arizona State University, USA*)  
Marc Cavazza (*University of Teesside, UK*)  
Pablo Cesar (*CWI, Netherlands*)  
Keith Cheverst (*Lancaster University, UK*)

Gregorio Convertino (*Palo Alto Research Center, USA*)  
 Matthew Cooper (*FX PAL, USA*)  
 Aiden Doherty (*University of Oxford, UK*)  
 Berna Erol (*Ricoh California Research Center, USA*)  
 Leonardo Giusti (*MIT, USA*)  
 Erik Grönvall (*Aarhus University, Denmark*)  
 Alex Jaimes (*Yahoo! Research, USA*)  
 Ramesh Jain (*University of California Irvine, USA*)  
 Antonio Krueger (*DFKI, Germany*)  
 Oswald Lanz (*Fondazione Bruno Kessler, Italy*)  
 Bruno Lepri (*Fondazione Bruno Kessler, Italy*)  
 Venet Osmani (*CREATE-NET, Italy*)  
 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*)

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.

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### **"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.

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### **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*

8:30-10:00	Tutorial1: Frontiers in Multimedia Search (Vaquero E1)	Tutorial2: Internet Multimedia Advertising: Techniques and Technologies (Vaquero E2)	Tutorial3: Internet Video Search (Vaquero F1)	Tutorial4: Semantic Computing in Multimedia (Vaquero F2)	Tutorial5: Audio and Multimedia Music Signal Processing (Vaquero G1)	Art Exhibit (Ballroom Foyers)
10:00-10:30	Coffee (South Foyer/Garden)					
10:30-12:00	Tutorial1: Frontiers in Multimedia Search (Vaquero E1)	Tutorial2: Internet Multimedia Advertising: Techniques and Technologies (Vaquero E2)	Tutorial3: Internet Video Search (Vaquero F1)	Tutorial4: Semantic Computing in Multimedia (Vaquero F2)	Tutorial5: Audio and Multimedia Music Signal Processing (Vaquero G1)	
12:00-1:30	Lunch					
1:30-3:00	Tutorial6: Acoustic and Multimodal Processing for Multimedia Content Analysis (Vaquero E1)	Tutorial7: Graphical Probabilistic Modeling and Applications in Multimedia Content Analysis (Vaquero E2)	Tutorial8: Multimedia Tagging: Past, Present and Future (Vaquero F1)	Tutorial9: Eye- tracking methodology and applications to images and video (Vaquero F2)	IEEE Multimedia Ed Board meeting (McDowell Room. By Invitation Only)	
3:00-3:30	Coffee (South Foyer/Garden)					
3:30-5:00	Tutorial6: Acoustic and Multimodal Processing for Multimedia Content Analysis (Vaquero E1)	Tutorial7: Graphical Probabilistic Modeling and Applications in Multimedia Content Analysis (Vaquero E2)	Tutorial8: Multimedia Tagging: Past, Present and Future (Vaquero F1)	Tutorial9: Eye- tracking methodology and applications to images and video (Vaquero F2)	IEEE Multimedia Ed Board meeting (McDowell Room. By Invitation Only)	
6:30-8:00	Reception (Outdoor, Terrace Court/Poolside)					

*Tuesday (Nov.29): 2nd Conference day*

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



*Wednesday (Nov.30): 3rd Conference day*

8:30-10:00	Keynote 2 (Genevieve Bell) "U are happy life": telling the future's stories (Arizona Ballroom)							Art Exhibit (Ballroom Foyers)
10:00-10:30	Coffee (South Foyer/Garden)							
10:30-12:30	Research 5: Media transport and sharing (Arizona Ballroom IV)	Research 6: Media authoring and production (Arizona Ballroom V)	Multimedia Grand Challenge Finals (Arizona Ballroom VI VII VIII)	J-MRE (Vaquero F)	WSM (Vaquero E)	MIRUM (Vaquero G)	Networking of Multimedia Women Event (Arizona Ballroom I II III)	
12:30-2:00	MSJ Ed Board meeting (McDowell Room. By Invitation Only)		Poster Plenary 2 (Vaquero A B C)					
2:00-4:00	Research 7: Media analysis and search (Arizona Ballroom IV)	Research 8: Media authoring and production (Arizona Ballroom V)	Panel 2: Towards Synergy Between the Open Source and the Research Multimedia Communities (Arizona Ballroom VI VII VIII)	J-MRE (Vaquero F)	WSM (Vaquero E)	MIRUM (Vaquero G)	Doctoral Symposium 1,2 and 3 (Arizona Ballroom I II III)	
4:00-4:30	Coffee (South Foyer/Garden)							
4:30-6:30	SIGMM Business Meeting (Arizona Ballroom IV V)			J-MRE (Vaquero F)	WSM (Vaquero E)	MIRUM (Vaquero G)		
7:30-10:30	Banquet (Arizona Ballroom)							

*Thursday (Dec.1): 4th Conference day*

8:30-10:00	Keynote 3 (Arnaud Robert) "Digital Media Distribution – The Future " (Arizona Ballroom)							Art Exhibit (Ballroom Foyers)
10:00-10:30	Coffee (South Foyer/Garden)							
10:30-12:30	Research 9: Media analysis and search (Arizona Ballroom IV)	Research 10: Multimedia systems and middleware (Arizona Ballroom V)		UBI-MUI (Vaquero G1)	SBNMA (Vaquero F)	J-HBGU (Vaquero E)	Industrial Exhibit / Technical Demos 2 (South Foyer, West Foyer)	
12:30-2:00	Poster Plenary 3 (Vaquero A B C)							
2:00-4:00	Research 11: Media analysis and search (Arizona Ballroom IV)	Research 12: Multimedia systems and middleware (Arizona Ballroom V)	Industrial Panel: Innovating the Multimedia Experience (Arizona Ballroom VI VII VIII)	MTDL (Vaquero G1)	SBNMA (Vaquero F)	J-HBGU (Vaquero E)	AIEMPro (Vaquero G2)	
4:00-4:30	Coffee (South Foyer/Garden)							
4:30-6:30	Research 13: Media analysis and search (Arizona Ballroom IV)	Research 14: Applications (Arizona Ballroom V)		MTDL (Vaquero G1)	SBNMA (Vaquero F)	J-HBGU (Vaquero E)	AIEMPro (Vaquero G2)	

## 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: #mm11t1*

### **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: #mm11t2*

### **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: #mm11t3*

### **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: #mm11t4*

### **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: #mm11t5*

### **Coffee Break**

*10:00 AM - 10:30 AM*

*South Foyer/Garden*

### **Lunch**

12:00 PM - 1:30 PM

**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: #mm11t6*

**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: #mm11t7*

**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: #mm11t8*

**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: #mm11t9*

**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: Svetha 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

<p><i>Hall: Vaquero A, B, C</i>  <i>Twitter Tag: #mm11pp1</i></p>
<p>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.</p>
<p><b>Short Papers</b></p>
<p><b>Analysis of Cypriot Icon Faces using ICA Enhanced Active Shape Model Representation</b>          Guifang Duan, Ritsumeikan University          Neela Sawant, The Pennsylvania State University          James Z. Wang, The Pennsylvania State University/National Science Foundation          Dean Snow, The Pennsylvania State University          Danni Ai, Ritsumeikan University          Yen-Wei Chen, Ritsumeikan University</p>
<p><b>A Creation-Tool for Contemporary Dance using Multimodal Video Annotation</b>          Diogo Cabral, Universidade Nova de Lisboa          João Valente, Universidade Nova de Lisboa          João Silva, Universidade Nova de Lisboa          Urândia Aragão, Universidade Nova de Lisboa          Carla Fernandes, Universidade Nova de Lisboa          Nuno Correia, Universidade Nova de Lisboa</p>
<p><b>Flower Power</b>          Gianluca Monaci, Philips Research          Tommaso Gritti, Philips Research          Fabio Vignoli, Philips Retail Solutions          Wouter Walmink, Studio:ludens          Maarten Hendriks, Little Mountain</p>
<p><b>Crowdsourcing Visual Detectors for Video Search</b>          Bauke Freiburg, Video Dock          Jaap Kamps, University of Amsterdam          Cees G.M. Snoek, University of Amsterdam</p>
<p><b>A Mobile Interactive Robot for Gathering Structured Social Video</b>          Alexander Reben, MIT Media Lab          Joseph Paradiso, MIT Media Lab</p>
<p><b>Abstract Rendering of Human Activity in a Dynamic Distributed Learning Environment</b>          Andreea Danielescu, Arizona State University          Ryan P. Spicer, Arizona State University          David Tinapple, Arizona State University          Aisling Kelliher, Arizona State University          Shawn Nikkila, Arizona State University          Sean Burdick, Unaffiliated</p>
<p><b>'WaterTouch': An Aquatic Interactive Multimedia Sensory Table based on Total Internal Reflection in Water</b>          Steve Mann, University of Toronto          Ryan Janzen, University of Toronto          Jason Huang, University of Toronto</p>
<p><b>Quality of Experience Evaluation of Voice Communication Systems using Affect-based Approach</b>          Abhishek Bhattacharya, Florida International University          Wanmin Wu, University of Illinois at Urbana-Champaign          Zhenyu Yang, Florida International University</p>
<p><b>A Multi-layer Hybrid Framework for Dimensional Emotion Classification</b>          Mihalis A. Nicolaou, Imperial College          Hatice Gunes, University of London, U.K.          Maja Pantic, Imperial College</p>
<p><b>Transforming Clinical Rehabilitation into Interactive Multimedia</b></p>

Catherine H. Vuong, Arizona State University Todd Ingalls, Arizona State University James J Abbas, Arizona State University
<b>Socially Relevant Simulation Games: A Design Study</b> Ramin Tadayon, Arizona State University Ashish Amresh, Arizona State University Winslow Burlison, Arizona State University
<b>Context-based Friend Suggestion in Online Photo-Sharing Community</b> Ting Yao, City University of Hong Kong Chong-Wah Ngo, City university of Hong Kong Tao Mei, Microsoft Research Asia
<b>Music Visualization: Predicting the Perceived Speed of a Composition -- Misual Project --</b> 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
<b>Kinship Verification from Facial Images Under Uncontrolled Conditions</b> 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
<b>VastMM-Tag: A Semantic Tagging Browser for Unstructured Videos</b> Mitchell J Morris, Columbia University John R Kender, Columbia University
<b>Expanding the Point -- Automatic Enlargement of Presentation Video Elements</b> Qiyam Tung, University of Arizona Ranjini Swaminathan, University of Arizona Alon Efrat, University of Arizona Kobus Barnard, University of Arizona
<b>Sharing Rectangular Objects in a Video Conference</b> Senthil Kumar, Alcatel Lucent Sreedal Menon, Alcatel Lucent Francis Zane, Alcatel Lucent
<b>Biased Metric Learning for Person-Independent Head Pose Estimation</b> Hao Ji, Beijing University of Posts and Telecommunications Fei Su, Beijing University of Posts and Telecommunications
<b>Next Photo Please: Towards Visually Consistent Sequential Photo Browsing</b> Dong Liu, Harbin Institute of Technology Shuicheng Yan, National University of Singapore Hong-Jiang Zhang, Microsoft Advanced Technology Center
<b>Towards Understanding User Tolerance to Network Latency in Zoomable Video Streaming</b> Khiem Quang Minh Ngo, National University of Singapore Ravindra Guntur, National University of Singapore Wei Tsang Ooi, National University of Singapore
<b>Socialising through Orchestrated Video Communication</b> Marian Ursu, Goldsmiths, University of London Pedro Torres, Goldsmiths, University of London Vilmos Zsombori, Goldsmiths, University of London Michael Frantzis, Goldsmiths, University of London Rene Kaiser, JOANNEUM RESEARCH
<b>Perceptual Coding of Recorded Telemanipulation Sessions</b> Fernanda Brandi, Technische Universität München Eckehard Steinbach, Technische Universität München
<b>Automatic Modeling of Personality States in Small Group Interactions</b>

Jacopo Staiano, DISI-University of Trento Bruno Lepri, FBK Ramanathan Subramanian, DISI-University of Trento Nicu Sebe, DISI-University of Trento Fabio Pianesi, FBK
<b>Snap &amp; Play: Auto-Generate Personalized Find-the-Difference Mobile Game</b> Si Liu, Institute of Automation, Chinese Academy of Sciences. China-Singapore Institute of Digital Media, Singapore Qiang Chen, Department of ECE, National University of Singapore Jian Dong, Department of ECE, National University of Singapore Shuicheng Yan, Department of ECE, National University of Singapore Changsheng Xu, Institute of Automation, Chinese Academy of Sciences China-Singapore Institute of Digital Media, Singapore Hanqing Lu, Institute of Automation, Chinese Academy of Sciences China-Singapore Institute of Digital Media, Singapore
<b>Fast Detection of Noisy GPS and Magnetometer Tags in Wide-Baseline Multi-Views</b> Aveek Shankar Brahmachari, University of South Florida Sudeep Sarkar, University of South Florida
<b>Video-based Image Retrieval</b> Linjun Yang, Microsoft Research Asia Yang Cai, Zhejiang University Alan Hanjalic, Delft University of Technology Xian-Sheng Hua, Microsoft Bing Shipeng Li, Microsoft Research Asia
<b>Location-Aware System Based on a Dynamic 3D Model to Help in Live Broadcasting of Sport Events</b> Roberto Yus, University of Zaragoza Eduardo Mena, University of Zaragoza Jorge Bernad, University of Zaragoza Sergio Ilarri, University of Zaragoza Arantza Illarramendi, Basque Country University
<b>Real-Time 3D Interaction with Deformable Model on Mobile Devices</b> Ziying Tang, Towson University Orkun Ozbek, Tufts University Xiaohu Guo, University of Texas at Dallas
<b>Keyframe Presentation for Browsing of User-generated Videos on Map Interfaces</b> Jia Hao, National University of Singapore Guanfeng Wang, National University of Singapore Beomjoo Seo, National University of Singapore Roger Zimmermann, National University of Singapore
<b>Detecting and Identifying People in Mobile Videos</b> Xunyi Yu, University of Massachusetts, Amherst Aura Ganz, University of Massachusetts, Amherst
<b>Multiple Object Localization by Context-Aware Adaptive Window Search and Search-Based Object Recognition</b> Fang-Erh Lin, National Taiwan University Yin-Hsi Kuo, National Taiwan University Winston H. Hsu, National Taiwan University
<b>Clustering Geo-tagged Photo Collections Using Dynamic Programming</b> Matthew L. Cooper, FX Palo Alto Laboratory
<b>Combining Image and Text Features: A Hybrid Approach to Mobile Book Spine Recognition</b> Sam S. Tsai, Stanford University David Chen, Stanford University



<p>Huizhong Chen, Stanford University          Cheng-Hsin Hsu, National Tsing Hua University          Kyu-Han Kim, HP Laboratories          Jatinder P Singh, Deutsche Telekom R&amp;D Laboratories USA          Bernd Girod, Stanford University</p>
<p><b>Knowledge Propagation in Large Image Databases Using Neighborhood Information</b>          Michael E. Houle, National Institute of Informatics          Vincent Oria, New Jersey Institute of Technology          Shin'ichi Satoh, National Institute of Informatics          Jichao Sun, New Jersey Institute of Technology</p>
<p><b>Edge-Preserving Single Image Super-Resolution</b>          Qiang Zhou, Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences, China          Shifeng Chen, Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences, China          Jianzhuang Liu, The Chinese University of Hong Kong, China          Xiaou Tang, The Chinese University of Hong Kong, China</p>
<p><b>Automatic Motion-Guided Video Stylization and Personalization</b>          Chen Cao, Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences, China          Shifeng Chen, Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences, China          Wei Zhang, Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences, China          Xiaou Tang, The Chinese University of Hong Kong</p>
<p><b>On the Pooling of Positive Examples with Ontology for Visual Concept Learning</b>          Shiai Zhu, City University of Hong Kong          Chong-Wah Ngo, City University of Hong Kong          Yu-Gang Jiang, Fudan University</p>
<p><b>Saliency-based Image Retargeting in the Compressed Domain</b>          Yuming Fang, Nanyang Technological University          Zhenzhong Chen, Nanyang Technological University          Weisi Lin, Nanyang Technological University          Chia-Wen Lin, National Tsing Hua University</p>
<p><b>Mining Concept Relationship in Temporal Context for Effective Video Annotation</b>          Jian Yi, Institute of Computer Science and Technology, Peking University, Beijing, China          Yuxin Peng, Institute of Computer Science and Technology, Peking University, Beijing, China          Jianguo Xiao, Institute of Computer Science and Technology, Peking University, Beijing, China</p>
<p><b>Structure Tensor Series-based Matching for Near-Duplicate Video Retrieval</b>          Xiangmin Zhou, CSIRO          Lei Chen, Hong Kong University of Science and Technology          Xiaofang Zhou, University of Queensland</p>
<p><b>A Smart Video Player with Content-Based Fast-Forward Playback</b>          Junfeng Jiang, Ryerson University          Xiao-Ping Zhang, Ryerson University</p>
<p><b>Video Anatomy: Cutting Video Volume for Profile</b>          Hongyuan Cai, IUPUI          Jiang Yu Zheng, IUPUI</p>
<p>Capture and Display for Live Immersive 3D Entertainment          Harlyn Baker, Hewlett-Packard Laboratories          Nelson L. Chang, Hewlett-Packard Laboratories          Arun Paruchuri, Hewlett-Packard Laboratories</p>
<p><b>A Real-time Bimanual 3D Interaction Method Based on Bare-hand Tracking</b>          Junhao Shi, Zhejiang University          Mingmin Zhang, State Key Lab of CAD&amp;CG          Zhigeng Pan, Hangzhou Normal University</p>
<p><b>'Learning Verb-Object' Concepts for Semantic Image Annotation'</b>          Xinming Zhang, Chinese Academy of Sciences &amp; China-Singapore Institute of Digital Media</p>

Zheng-Jun Zha, National University of Singapore Changsheng Xu, Chinese Academy of Sciences & China-Singapore Institute of Digital Media
<b>A Novel Method for Semantic Video Concept Learning using Web Images</b> Yongqing Sun, NTT Cyber Solutions Laboratories, NTT Corporation Akira Kojima, NTT Cyber Solutions Laboratories, NTT Corporation
<b>Efficient Multi-modal Retrieval in Conceptual Space</b> Jun Imura, The University of Tokyo Teppei Fujisawa, The University of Tokyo Tatsuya Harada, The University of Tokyo / JST PRESTO Yasuo Kuniyoshi, The University of Tokyo
<b>Up-Fusion: An Evolving Multimedia Decision Fusion Method</b> Xiangyu Wang, National University of Singapore Yong Rui, Microsoft China R&D Group Mohan S. Kankanhalli, National University of Singapore
<b>Robust Hand Gesture Recognition Based on Finger-Earth Mover's Distance with a Commodity Depth Camera</b> Zhou Ren, Nanyang Technological University Junsong Yuan, Nanyang Technological University Zhengyou Zhang, Microsoft Research Redmond
<b>Recognizing Clothes Patterns for Blind People by Confidence Margin based Feature Combination</b> Xiaodong Yang, The City College of New York, CUNY Shuai Yuan, The City College of New York, CUNY YingLi Tian, The City College of New York, CUNY
<b>Dual-sensor Fusion for Indoor User Localisation</b> Milan Redzic, Dublin City University Conor Brennan, Dublin City University Noel E O'Connor, Dublin City University
<b>Document Dependent Fusion in Multimodal Music Retrieval</b> Zhonghua Li, National University of Singapore Bingjun Zhang, National University of Singapore Ye Wang, National University of Singapore
<b>Finding Representative and Diverse Community Contributed Images to Create Visual Summaries of Geographic Areas</b> Stevan Rudinac, Delft University of Technology Alan Hanjalic, Delft University of Technology Martha Larson, Delft University of Technology
<b>Fusing Object Detection and Region Appearance for Image-text Alignment</b> Luca Del Pero, University of Arizona Philip Lee, University of Arizona James Magahern, University of Arizona Emily Hartley, University of Arizona Kobus Barnard, University of Arizona Ping Wang, ObjectVideo Atul Kanaujia, ObjectVideo Niels Haering, ObjectVideo
<b>Bottom-up Saliency based on Weighted Sparse Coding Residual</b> Biao Han, Digital Media Laboratory, Shanghai University Hao Zhu, State Key Laboratory of Cognitive Neuroscience and Learning, Beijing Normal University Youdong Ding, Digital Media Laboratory, Shanghai University
<b>Purposive Hidden-Object-Game: Embedding Human Computation in Popular Game</b> Yuzhao Ni, Department of ECE, National University of Singapore Jian Dong, Department of ECE, National University of Singapore

Jiashi Feng, Department of ECE, National University of Singapore  
 Shuicheng Yan, Department of ECE, National University of Singapore

**Geo-Localization of Street Views with Aerial Image Databases**

Mayank Bansal, SRI International Sarnoff  
 Harpreet S Sawhney, SRI International Sarnoff  
 Hui Cheng, SRI International Sarnoff  
 Kostas Daniilidis, University of Pennsylvania

**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

<p>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</p>
<p><b>Automatic Tag Generation and Ranking for Sensor-rich Outdoor Videos</b>          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</p>
<p><b>Using Graphics Rendering Contexts to Enhance the Real-Time Video Coding for Mobile Cloud Gaming</b>          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</p>

**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

<p><b>Modeling Social Strength in Social Media Community via Kernel-based Learning</b>          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</p>
<p><b>Audio-Visual Grouplet: Temporal Audio-Visual Interactions for General Video Concept Classification</b>          Wei Jiang, Eastman Kodak Company          Alexander C Loui, Eastman Kodak Company</p>
<p><b>News Contextualization with Geographic and Visual Information</b>          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</p>
<p><b>Multi-Modal Constraint Propagation for Heterogeneous Image Clustering</b>          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</p>

**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

<p><b>Implicit Experiences as a Determinant of Perceptual Quality and Aesthetic Appreciation</b>  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, Ecole Polytechnique Federale de Lausanne</p>
<p><b>Searching the Past: An Improved Shape Descriptor to Retrieve Maya Hieroglyphs</b>  Edgar Roman-Rangel, Idiap Research Institute &amp; École Polytechnique Fédérale de Lausanne (EPFL)  Carlos Pallan Gayol, National Institute of Anthropology and History  Jean-Marc Odobez, Idiap Research Institute &amp; École Polytechnique Fédérale de Lausanne (EPFL)  Daniel Gatica-Perez, Idiap Research Institute &amp; École Polytechnique Fédérale de Lausanne (EPFL)</p>
<p><b>Shedding Light on Shadow: Real-time Interactive Artworks based on Cast Shadows or Silhouettes</b>  Christian Jacquemin, LIMSI-CNRS &amp; Univ. Paris-Sud  Georges Gagneré, Didascalie.net  Benoit Lahoz, L'ange Carasuelo</p>

## OPEN SOURCE SOFTWARE COMPETITION

<p><b>Open Source Software Competition 1: Content And Systems</b>  Session Chair: Wei-Tsang Ooi, National University of Singapore  <i>Tuesday, November 29, 2011, 2:00 PM - 4:00 PM</i>  <i>Hall: Arizona Ballroom I, II, III</i>  <i>Twitter Tag: #mm11os1</i></p>
<p>(o) Oral paper: 20 minutes (15 minutes presentation + 5 minutes questions)  (p) Poster paper: 10 minutes (5 minutes presentation + 5 minutes questions)</p>
<p><b>(o) OpenIMAJ and ImageTerrier: Java Libraries and Tools for Scalable Multimedia Analysis and Indexing of Images</b>  Jonathon S Hare, University of Southampton  Sina Samangoeei, University of Southampton  David P Dupplaw, University of Southampton</p>
<p><b>(p) Content Based Image Retrieval with LIRE</b>  Mathias Lux, Klagenfurt University</p>
<p><b>(o) From Images to 3D Models Made Easy</b>  Isaac Esteban, TNO &amp; University of Amsterdam  Judith Dijk, TNO  Frans C.A. Groen, University of Amsterdam</p>
<p><b>(p) A C++ Library for Handling MPEG-7 Descriptions</b>  Werner Bailer, JOANNEUM RESEARCH  Hermann Fürntratt, JOANNEUM RESEARCH  Peter Schallauer, JOANNEUM RESEARCH  Georg Thallinger, JOANNEUM RESEARCH  Werner Haas, JOANNEUM RESEARCH</p>
<p><b>(o) The FCam API for Programmable Cameras</b>  Sung Hee Park, Stanford University  Andrew Adams, Stanford University  Eino-Ville Talvala, Google Inc.</p>
<p><b>(p) Tribler: P2P media search and sharing</b>  Niels Zeilemaker, Delft University of Technology  Mihai Capota, Delft University of Technology  Arno Bakker, Delft University of Technology</p>

Johan Pouwelse, Delft University of Technology
<b>(o) Just-In-Time Adaptive Decoder Engine: A universal video decoder based on MPEG RVC</b> Jérôme Gorin, ARTEMIS/ Telecom SudParis Yviquel Hervé, IRISA, University of Rennes 1 Prêteux Françoise, MINES ParisTech Raulet Mickael, INSA
<b>Coffee Break</b> 4:00 PM - 4:30 PM South Foyer/Garden
<b>Open Source Software Competition 2: Applications And Education</b> 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) Oral paper: 20 minutes (15 minutes presentation + 5 minutes questions) (p) Poster paper: 10 minutes (5 minutes presentation + 5 minutes questions)
<b>(p) GoalBit: A Free and Open Source Peer-to-Peer Streaming Network</b> Andrés Barrios, GoalBit-Solutions Matías Barrios, GoalBit-Solutions Daniel De Vera, GoalBit-Solutions Pablo Rodríguez-Bocca, Facultad de Ingeniería, Universidad de la República Claudia Rostagnol, GoalBit-Solutions
<b>(o) A VLC Media Player Plugin enabling Dynamic Adaptive Streaming over HTTP</b> Christopher Müller, Alpen-Adria-Universität Klagenfurt Christian Timmerer, Alpen-Adria-Universität Klagenfurt
<b>(o) Experimenting with Multimedia Advances using GPAC</b> Jean Le Feuvre, Telecom ParisTech Cyril Concolato, Telecom ParisTech Jean-Claude Dufourd, Telecom ParisTech Romain Bouqueau, Telecom ParisTech Jean-Claude Moissinac, Telecom ParisTech
<b>(p) OpenMusic: Visual Programming Environment for Music Composition, Analysis and Research</b> Jean Bresson, STMS: IRCAM-CNRS-UPMC Carlos Agon, STMS: IRCAM-CNRS-UPMC Gérard Assayag, STMS: IRCAM-CNRS-UPMC
<b>(o) Timesheets.js: Tools for Web Multimedia</b> Fabien Cazenave, INRIA Vincent Quint, INRIA Cécile Roisin, Grenoble University & INRIA
<b>(o) ClassX - An Open Source Interactive Lecture Streaming System</b> Sherif Halawa, Stanford University Derek Pang, Stanford University Ngai-Man Cheung, Stanford University Bernd Girod, Stanford University
<b>(o) Opencast Matterhorn 1.1: Reaching New Heights</b> 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

Kristofor Amundson, University of Saskatchewan  
 Greg Logan, University of Saskatchewan  
 Kenneth Lui, University of British Columbia  
 Adam McKenzie, University of Saskatchewan  
 Denis Meyer, Universität Osnabrück  
 Markus Moormann, Universität Osnabrück  
 Matjaz Rihtar, Josef Stefan Institute  
 Ruediger Rolf, Universität Osnabrück  
 Nejc Skofic, Josef Stefan Institute  
 Micah Sutton, University of Nebraska-Lincoln  
 Ruben Perez Vazquez, Universida de Vigo  
 Benjamin Wulff, Universität Osnabrück

## WORKSHOPS DAY 1

<p><b>International ACM Workshop on Multimedia in Forensics and Intelligence (MiFor'11)</b>          Workshop Chairs:          Sebastiano Battiato, Università di Catania          Sabu Emmanuel, Nanyang Techn. University          Adrian Ulges, DFKI          Marcel Worring, University of Amsterdam  <i>Tuesday, November 29, 2011, 2:00 PM - 5:50 PM</i>  <i>Hall: Vaquero E</i>  <i>Twitter Tag: #mm11mf</i></p>
<p><b>Opening</b>          Marcel Worring, University of Amsterdam  <i>2:00 PM - 2:05 PM</i></p>
<p><b>Session 1: Biometrics, Retrieval and Privacy</b>          Session Chair: TBD  <i>2:05 PM - 3:50 PM</i></p>
<p><b>Gang and Moniker Identification by Graffiti Matching</b>          Wei Tong, Michigan State University          Jung-Eun Lee, Michigan State University          Rong Jin, Michigan State University          Anil K. Jain, Michigan State University  <i>2:05 PM - 2:40 PM</i></p>
<p><b>Measuring Measures for Face Sample Quality</b>          Maria De Marsico, Sapienza Università di Roma          Michele Nappi, University of Salerno          Daniel Riccio, University of Salerno  <i>2:40 PM - 3:15 PM</i></p>
<p><b>A Secret Sharing based Privacy Enforcement Mechanism for Untrusted Social Networking Operators</b>          Pradeep K Atrey, The University of Winnipeg  <i>3:15 PM - 3:50 PM</i></p>
<p><b>Coffee Break</b>  <i>4:00 PM - 4:30 PM</i>  <i>South Foyer/Garden</i></p>
<p><b>Session 2: Multimedia Tampering and Forgery</b>          Session Chair: TBD  <i>4:30 PM - 5:40 PM</i></p>
<p><b>A Forensic Signature Based on Spatial Distributed Bag of Features for Image Alignment and Tampering Detection</b></p>

Sebastiano Battiato, University of Catania Giovanni Maria Farinella, University of Catania Enrico Messina, University of Catania Giovanni Puglisi, University of Catania <i>4:30 PM - 5:05 PM</i>
<b>Detection of Misaligned Cropping and Recompression with the Same Quantization Matrix and Relevant Forgery</b> Qingzhong Liu, Sam Houston State University <i>5:05 PM - 5:40 PM</i>
<b>Closing</b> <i>5:40 PM - 5:50 PM</i>

<b>International ACM Workshop on Interactive Multimedia on Mobile and Portable Devices (IMMPD'11)</b> Workshop Chairs: Jiebo Luo, Kodak Research Laboratories Caifeng Shan, Philips Research Ling Shao, University of Sheffield Minoru Etoh, NTT DOCOMO <i>Tuesday, November 29, 2011, 2:00 PM - 5:20 PM</i> <i>Hall: Vaquero F</i> <i>Twitter Tag: #mm11im</i>
<b>Opening</b> Jiebo Luo, Minoru Etoh <i>2:00 PM - 2:10 PM</i>
<b>Oral Session 1</b> Session Chair: <i>2:10 PM - 3:25 PM</i>
<b>A Novel PRO-CAM based Interactive Display Surface</b> Wenhong Yuan, University of Science and Technology of China Bin Li, University of Science and Technology of China Kongqiao Wang, Nokia Research Center <i>2:10 PM - 2:35 PM</i>
<b>Mobile Interactive Region-of-Interest Video Streaming with Crowd-Driven Prefetching</b> Derek Pang, Stanford University Sherif Halawa, Stanford University Ngai-Man Cheung, Stanford University Bernd Girod, Stanford University <i>2:35 PM - 3:00 PM</i>
<b>Comp2Watch: Enhancing the Mobile Video Browsing Experience</b> Yu-Ming Hsu, National Taiwan University Ming-Kuang Tsai, National Taiwan University Yen-Liang Lin, National Taiwan University Winston H. Hsu, National Taiwan University <i>3:00 PM - 3:25 PM</i>
<b>Coffee Break and Poster Session</b> <i>3:25 PM - 4:00 PM</i>
<b>System Level Power Allocation Algorithm for Mobile Devices for Full Playback Guarantee</b> Sachin Deshpande, Sharp Laboratories of America Louis Kerofsky, Sharp Laboratories of America <i>3:25 PM - 4:00 PM</i>
<b>Oral Session 2</b> <i>4:00 PM - 5:15 PM</i>



<p><b>Image Collection Summarization for Search Result Overviewing on Mobile Devices</b>  Go Irie, NTT Corporation &amp; 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</p>
<p><b>Interactive and Real-Time Generation of Home Video Summaries on Mobile Devices</b>  Jianwei Niu, Beihang University  Da Huo, Beihang University  Xiao Zeng, Nokia Research Center  Jonathan Mugan, Carnegie Mellon University  4:25 PM - 4:50 PM</p>
<p><b>Using Ephemeral Clustering and Query Logs to Organize Web Image Search Results on Mobile Devices</b>  Jose G. Moreno, University of Beira Interior  Gaël H. Dias, University of Beira Interior  4:50 PM - 5:15 PM</p>
<p><b>Closing</b>  5:15 PM - 5:20 PM</p>

<p><b>International ACM Workshop on Medical Multimedia Analysis and Retrieval (MMAR)</b>  Workshop Chairs:  Yu Cao, The University of Tennessee at Chattanooga  Jayashree Kalpathy-Cramer, Oregon Health &amp; Science University  Devrim Ünay, Bahçesehir University  Tuesday, November 29, 2011, 2:00 PM - 6:00 PM  Hall: Vaquero G  Twitter Tag: #mm11mm</p>
<p><b>Opening Remarks</b>  Yu Cao, The University of Tennessee  2:00 PM - 2:05 PM</p>
<p><b>Oral Session 1: Medical Image Retrieval and Classification</b>  2:05 PM - 3:50 PM</p>
<p><b>(Regular) Hierarchical Spatial Matching for Medical Image Retrieval</b>  Yang Song, University of Sydney  Weidong Cai, University of Sydney  Dagan Feng, University of Sydney  2:05 PM - 2:40 PM</p>
<p><b>(Regular) Predicting Modality from Text Queries for Medical Image Retrieval</b>  Pierre Tirilly, University of Wisconsin-Milwaukee  Kun Lu, University of Wisconsin-Milwaukee  Xiangming Mu, University of Wisconsin-Milwaukee  2:40 PM - 3:15 PM</p>
<p><b>(Invited) Towards the Improvement of Textual Anatomy Image Classification using Image Local Features</b>  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</p>

<b>Discussion</b> 3:50 PM - 4:00 PM
<b>Coffee Break</b> 4:00 PM - 4:30 PM
<b>Oral Session 2: Feature Extraction Method for Medical Images and Medical Video Analysis</b> 4:30 PM - 5:40 PM
<b>(Regular) Video-based Motion Expertise Analysis in Simulation-based Surgical Training Using Hierarchical Dirichlet Process Hidden Markov Model</b> Qiang Zhang, Arizona State University Baoxin Li, Arizona State University 4:30 PM - 5:05 PM
<b>(Regular) Fast Fractal Stack: Fractal Analysis of Computed Tomography Scans of the Lung</b> 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
<b>Discussion and Concluding Remarks</b> 5:40 PM - 6:00 PM

**PANEL 1**

<b>Panel 1: Smart Games</b> Session 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
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<b>Coffee Break</b> 4:00 PM - 4:30 PM South Foyer/Garden
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**INDUSTRIAL EXHIBIT / TECHNICAL DEMOS 1**

<b>Industrial Exhibit 1</b> 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
<b>VOXALEAD: A Scalable Video Search Engine Based On Content</b> Julien Law-To, Exalead Gregory Grefenstette, Exalead
<b>MMSI Talk: an applicative use case of Quaero Media Monitoring &amp; Social Impact</b> Raphaël Blouet, Yacast Charlotte Juan, Yacast
<b>Web-Scale Image Search by Color Sketch</b> 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

**Kooba 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 Carnecky, kooaba AG  
Franco Sebregondi, kooaba AG  
David Wisti, kooaba AG

**Technical Demos 1**

Session Chair: Shervin Shirmohammadi, University of Ottawas

*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  
Xiaou 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**

Svetha Venkatesh, Curtin University  
Stewart Greenhill, Curtin University

Dinh Phung, Curtin University Brett Adams, Curtin University
<b>iCabinet: Stand-alone Implementation of a Method for Preventing Illegal Recording of Displayed Content by Adding Invisible Noise Signals</b> Takayuki Yamada, Graduate University for Advanced Studies Seiichi Gohshi, Kogakuin University Isao Echizen, National Institute of Informatics
<b>Purposive Hidden-Object Game (P-HOG) Towards Imperceptible Human Computation</b> Jian Dong, National University of Singapore Yuzhao Ni, National University of Singapore Jiashi Feng, National University of Singapore Shuicheng Yan, National University of Singapore
<b>StoryImaging: A Media-Rich Presentation System for Textual Stories</b> Genliang Guan, University of Sydney Zhiyong Wang, University of Sydney Xian-Sheng Hua, Microsoft Dagan Feng, University of Sydney
<b>TapTell: Understanding Visual Intents On-the-go</b> Ning Zhang, Ryerson University Tao Mei, Microsoft Research Asia Xian-Sheng Hua, Microsoft Ling Guan, Ryerson University Shipeng Li, Microsoft Research Asia
<b>A Mobile Player for Interactive Non-linear Video</b> Britta Meixner, University of Passau Johannes Köstler, University of Passau Harald Kosch, University of Passau
<b>Real Time Extraction of Body Soft Biometric from 3D Videos</b> Carmelo Velardo, EURECOM Jean-Luc Dugelay, EURECOM
<b>Tele-immersive Gaming for Everybody</b> 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
<b>A Home-based Adaptive Mixed Reality Rehabilitation System</b> 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
<b>ClassX Mobile: Region-of-Interest Video Streaming to Mobile Devices with Multi-Touch Interaction</b> Derek Pang, Stanford University Sherif Halawa, Stanford University Ngai-Man Cheung, Stanford University Bernd Girod, Stanford University
<b>Sketch2Cartoon: Composing Cartoon Images by Sketching</b> Changhu Wang, Microsoft Research Asia Jun Zhang, Biological Intelligence and Information Lab, Shanghai Jiao Tong University

Bruce Yang, Microsoft Research Asia  
Lei Zhang, Microsoft Research Asia

**Sensor-rich Video Exploration on a Map Interface**

Beomjoo Seo, National University of Singapore  
Jia Hao, National University of Singapore  
Guanfeng Wang, National University of Singapore

**Ztitch: A Mobile Phone Application for 3D Scene Creation, Navigation, and Sharing**

Andrew Au, Simon Fraser University  
Jie Liang, Simon Fraser University

**Automatic Comic-like Image Layout System Preserving Image Order and Important Regions**

Emi Myodo, KDDI R&D Laboratories Inc.  
Satoshi Ueno, KDDI R&D Laboratories Inc.  
Koichi Takagi, KDDI R&D Laboratories Inc.  
Shigeyuki Sakazawa, KDDI R&D Laboratories Inc.

**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 Netwoked 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

*Wednesday, November 30, 2011, 10:30 AM - 12:30 PM*

*Hall: Arizona Ballroom V*

*Twitter Tag: #mm11rs6*

**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-Khoo Tan, University Tunku Abdul Rahman  
 Lei Pang, City Univeristy 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

**Research 7: Media Analysis And Search**

Session Chair: Qi Tian, UTSA

*Wednesday2, November 30, 2011, 10:30 AM - 12:30 PM*

*Hall: Arizona Ballroom IV*

*Twitter Tag: #mm11rs7*

**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****Multimedia Grand Challenge Finals**

Session Chair: TBD  
*Wednesday, November 30, 2011, 10:30 AM - 12:30 PM*  
*Hall: Arizona Ballroom VI, VII, VIII*  
*Twitter Tag: #mm11gc*

**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

Winston H. Hsu, National Taiwan University
<b>Photo Search by Face Positions and Facial Attributes on Touch Devices</b> 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
<b>Towards Textually Describing Complex Video Contents with Audio-Visual Concept Classifiers</b> Chun Chet Tan, City University of Hong Kong Yu-Gang Jiang, Fudan University Chong-Wah Ngo, City University of Hong Kong
<b>Evaluating a Dancer's Performance using Kinect-based Skeleton Tracking</b> 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
<b>Dynamic Social Network for Narrative Video Analysis</b> Tsung-Hung Tsai, Academia Sinica Wen-Huang Cheng, Academia Sinica Yung-Huan Hsieh, Academia Sinica
<b>Enhanced Visualisation of Dance Performance From Automatically Synchronised Multimodal Recordings</b> 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 Tournemenne, 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
<b>News Browsing System: Multimodal Analysis</b> Bruno do Nascimento Teixeira, Federal University of Minas Gerais Júlia Epischina Engrácia de Oliveira, Federal University of Minas Gerais Fillipe 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
<b>An Audio-driven Virtual Dance-Teaching Assistant</b> 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 Tournemenne, robin.tournemenne@wanadoo.fr
<b>Understanding Images with Natural Sentences</b>

<p>Yoshitaka Ushiku, University of Tokyo  Tatsuya Harada, University of Tokyo / JST PRESTO  Yasuo Kuniyoshi, University of Tokyo</p>
<p><b>A Psychophysical Approach for Real-Time 3D Video Processing</b>  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</p>
<p><b>Augmenting Mobile City-View Image Retrieval with Context-Rich User-Contributed Photos</b>  Yin-Hsi Kuo, National Taiwan University and Academia Sinica  Wen-Yu Lee, National Taiwan University  Winston H. Hsu, National Taiwan University  Wen-Huang Cheng, Academia Sinica</p>

## WORKSHOPS DAY 2

<p><b>Joint ACM Workshop on Modeling and Representing Events (J-MRE'11)</b>  <b>Part 1: International ACM Workshop on Events in Multimedia (EiMM11)</b>  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</p> <p><b>Part 2: International ACM Workshop on Sparse Representation for Event Detection in Multimedia (SRED'11)</b>  Workshop Chairs:  Huiyu Zhou, Queen's University Belfast  Jianguo Zhang, University of Dundee  Liang Wang, National Lab of Pattern Recognition  Zhengyou Zhang, Microsoft Research  <i>Wednesday, November 30, 2011, 10:30 AM - 6:30 PM</i>  <i>Hall: Vaquero F</i>  <i>Twitter Tag: #mm11jm</i></p>
<p><b>Session 1: Event Detection From Multimedia Content</b>  Session Chair: Vasileios Mezaris, Centre for Research and Technology Hellas  <i>10:30 AM - 12:30 PM</i></p>
<p><b>Event Detection and Scene Attraction by Very Simple Contextual Cues</b>  Ivan Tankoyeu, University of Trento  Javier Paniagua, University of Trento  Julian Stöttinger, University of Trento  Fausto Giunchiglia, University of Trento  <i>10:30 AM - 11:00 AM</i></p>
<p><b>Exploitation of Time Constraints for (Sub-)Event Recognition</b>  Riccardo Mattivi, University of Trento  Jasper Uijlings, University of Trento  Francesco G.B. De Natale, University of Trento  Nicu Sebe, University of Trento  <i>11:00 AM - 11:30 AM</i></p>
<p><b>Trajectories Based Descriptor for Dynamic Events Annotation</b>  Nicolas Ballas, CEA, LIST, &amp; CAOR MINES ParisTech  Bertrand Delezoide, CEA, LIST  Françoise Prêteux, MINES ParisTech</p>

<i>11:30 AM - 12:00 PM</i>
<b>Acoustic Super Models for Large Scale Video Event Detection</b> Robert Mertens, International Computer Science Institute Howard Lei, International Computer Science Institute Luke Gottlieb, International Computer Science Institute Gerald Friedland, International Computer Science Institute Ajay Divakaran, SRI International Sarnoff <i>12:00 PM - 12:30 PM</i>
<b>Session 2: Sparse Representation And Event-Based Applications</b> Session Chair: Ansgar Scherp, University of Koblenz <i>2:00 PM - 4:00 PM</i>
<b>Dynamic Texture Reconstruction from Sparse Codes for Unusual Event Detection in Crowded Scenes</b> 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 <i>2:00 PM - 2:30 PM</i>
<b>Sequence-Kernel Based Sparse Representation for Amateur Video Summarization</b> Zheshen Wang, Arizona State University Mrityunjay Kumar, Eastman Kodak Company Jiebo Luo, Eastman Kodak Company Baoxin Li, Arizona State University <i>2:30 PM - 3:00 PM</i>
<b>Finding the Game Flow from Sports Video</b> Yi Ding, Oklahoma State University Guoliang Fan, Oklahoma State University <i>3:00 PM - 3:30 PM</i>
<b>Lifelog Event Management: Crowd Research Case Study</b> Pil Ho Kim, University of Trento Fausto Giunchiglia, University of Trento <i>3:30 PM - 4:00 PM</i>
<b>Keynote Address</b> Session Chair: Ansgar Scherp, University of Koblenz <i>4:00 PM - 4:30 PM</i>
<b>Event And Story - An Intricate Relationship</b> Frank Nack, University of Amsterdam <i>4:30 PM</i>

<b>International ACM Workshop on Social Media (WSM11)</b> 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 <i>Wednesday, November 30, 2011, 10:30 AM - 18:30 PM</i> <i>Hall: Vaquero E</i> <i>Twitter Tag: #mm11ws</i>
<b>Welcome and Keynote</b> Session Chair: Jiebo Luo, Rochester University <i>10:30 AM - 11:25 AM</i>

<p><b>Welcome</b> 10:30 AM – 10:35 AM</p>
<p><b>Mining Social Media - Issues and Challenges</b> Huan Liu, Arizona State University 10:35AM – 11:25 AM</p>
<p><b>Session 1: Information Extraction and Content Organization</b> Session Chair: Yiannis Kompatsiaris, CERTH – Informatics and Telematics Institute 11:25 AM - 12:40 PM</p>
<p><b>Using social media to identify events</b> Xueliang Liu, EURECOM Raphaël Troncy, EURECOM Benoit Huet, EURECOM 11:25 AM - 11:50 AM</p>
<p><b>Sentiment Analysis of Social Media Content using N-Gram Graphs</b> 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</p>
<p><b>Laplacian Adaptive Context-based SVM for Video Concept Detection</b> Wei Jiang, Eastman Kodak Company Alexander Loui, Eastman Kodak Company 12:15 PM - 12:40 PM</p>
<p><b>Lunch</b> 12:40 PM - 2:00 PM Vaquero A, B, C</p>
<p><b>Session 2: Location-based approaches</b> Session Chair: Konstantinos Tserpes, Harokopio University of Athens 2:00 PM - 3:15 PM</p>
<p><b>Multimodal Location Estimation on Flickr Videos</b> Gerald Friedland, International Computer Science Institute Jaeyoung Choi, International Computer Science Institute Howard Lei, International Computer Science Institute 2:00 PM - 2:25 PM</p>
<p><b>IM2MAP: Deriving Maps from Georeferenced Community Contributed Photo Collections</b> Ling Xie, UC Merced Shawn Newsam, UC Merced 2:25 PM - 2:50 PM</p>
<p><b>Tag Suggestion and Localization for Web Videos by Bipartite Graph Matching</b> 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</p>
<p><b>Keynote</b> Session Chair: Steven C. H. Hoi, Nanyang Technological University 3:15 PM - 4:05 PM</p>
<p><b>Keynote Talk: Large-scale Social Media Analysis in Facebook</b> Rong Yan, Facebook Inc.</p>
<p><b>Coffee Break</b> 4:05 PM - 4:30 PM South Foyer/Garden</p>
<p><b>Session 3: Social Media Applications and Studies</b> Session Chair: Roelof van Zwol, Yahoo! Research 4:30 PM - 6:10 PM</p>
<p><b>Photo Stream Alignment for Collaborative Photo Collection and Sharing in Social Media</b></p>

<p>Jianchao Yang, University of Illinois at Urbana Champaign          Jiebo Luo, Kodak Research Labs          Jie Yu, Kodak Research Labs          Thomas S Huang, University of Illinois at Urbana-Champaign  <i>4:30 PM - 4:55 PM</i></p>
<p><b>Near2me: An Authentic and Personalized Social Media-based Recommender for Travel Destinations</b>          Christoph Kofler, Delft University of Technology          Luz Caballero, Delft University of Technology          Maria Menendez, Delft University of Technology          Valentina Occhialini, Delft University of Technology          Martha Larson, Delft University of Technology  <i>4:55 PM - 5:20 PM</i></p>
<p><b>Why Do We Converse on Social Media? An Analysis of Intrinsic and Extrinsic Network Factors</b>          Munmun De Choudhury, Rutgers University          Hari Sundaram, Arizona State University  <i>5:20 PM - 5:45 PM</i></p>
<p><b>Chase Display of Social Live Streams (SOLISs)</b>          Sumita Barahmand, University of Southern California          Shahram Ghandeharizadeh, University of Southern California  <i>5:45 PM - 6:10 PM</i></p>
<p><b>Discussion and Closing</b>  <i>6:10 PM - 6:30 PM</i></p>

<p><b>International ACM Workshop on Music Information Retrieval with User-Centered and Multimodal Strategies (MIRUM'11)</b>          Workshop Chairs:          Cynthia Liem, Delft University of Technology          Douglas Eck, Google Inc.          Meinard Müller, Saarland University/MPI für Informatik          George Tzanetakis, University of Victoria  <i>Wednesday, November 30, 2011, 10:30 AM - 6:30 PM</i>  <i>Hall: Vaquero G</i>  <i>Twitter Tag: #mm11mi</i></p>
<p><b>Session 1</b>          Session Chair: Xavier Anguera Miro, Telefonica R&amp;D  <i>10:30 AM - 12:30 PM</i></p>
<p><b>OPENING REMARKS AND INTRODUCTION - The Need for Music Information Retrieval with User-Centered and Multimodal Strategies</b>          Cynthia C.S. Liem, Delft University of Technology          Meinard Müller, Saarland University &amp; MPI Informatik          Douglas Eck, Google Inc.          George Tzanetakis, University of Victoria          Alan Hanjalic, Delft University of Technology  <i>10:30 AM - 10:55 AM</i></p>
<p><b>Affective Content Analysis of Music Video Clips</b>          Ashkan Yazdani, EPFL          Krista Kappeler, EPFL          Touradj Ebrahimi, EPFL  <i>10:55 AM - 11:20 AM</i></p>
<p><b>A Tempo-Sensitive Music Search Engine With Multimodal Inputs</b>          Yu YI, National University of Singapore</p>

<p>Yinsheng ZHOU, National University of Singapore          Ye WANG, National University of Singapore  <i>11:20 AM - 11:40 AM</i></p>
<p><b>KEYNOTE - Audiovisual Archive Exploitation in the Networked Information Society</b>          Roeland Ordelman, Netherlands Institute for Sound and Vision &amp; University of Twente  <i>11:40 AM - 12:30 PM</i></p>
<p><b>Lunch Break And Plenary Poster Session</b>  <i>12:30 PM - 2:00 PM</i>          Vaquero A, B, C</p>
<p>Posters of MIRUM workshop papers will be presented alongside regular and short papers of the main conference.</p>
<p><b>Session 2</b>          Session Chair: Gaël Richard, Telecom ParisTech, France  <i>2:00 PM - 4:00 PM</i></p>
<p><b>Music Identification via Vocabulary Tree with MFCC Peaks</b>          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  <i>2:00 PM - 2:25 PM</i></p>
<p><b>Finding Geographically Representative Music via Social Media</b>          Charles Parker, Eastman Kodak Company          Dhiraj Joshi, Eastman Kodak Company          Phoury Lei, Eastman Kodak Company          Jiebo Luo, Eastman Kodak Company  <i>2:25 PM - 2:50 PM</i></p>
<p><b>Music Genre Classification using Explicit Semantic Analysis</b>          Kamelia Aryafar, Drexel University          Ali Shokoufandeh, Drexel University  <i>2:50 PM - 3:15 PM</i></p>
<p><b>Panel: Bridging opportunities for the music and multimedia domains</b>          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  <i>3:15 PM - 4:00 PM</i></p>
<p><b>Session 3</b>          Session Chair: Ju-Chiang Wang, National Taiwan University, Taiwan  <i>4:30 PM - 6:10 PM</i></p>
<p><b>Analyzing Sound Tracings - A Multimodal Approach to Music Information Retrieval</b>          Kristian Nymoen, University of Oslo          Baptiste Caramiaux, IRCAM, CNRS          Mariusz Kozak, University of Chicago          Jim Torresen, University of Oslo  <i>4:30 PM - 4:55 PM</i></p>
<p><b>Advantages of Nonstationary Gabor Transforms in Beat Tacking</b>          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</p>

4:55 PM - 5:20 PM
<b>A Musical Mood Trajectory Estimation Method Using Lyrics and Acoustic Features</b> 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 5:20 PM - 5:45 PM
<b>What is a ‘Musical World’? An Affinity Propagation Approach</b> Eugenio Tacchini, Università degli Studi di Milano Ernesto Damiani, Università degli Studi di Milano 5:45 PM - 6:10 PM
<b>Closing Remarks</b> 6:10 - 6:30 PM

<b>Networking of Multimedia Women Event</b> Event Chair: Klara Nahrstedt, University of Illinois at Urbana-Champaign <i>Wednesday, November 30, 2011, 10:30 AM - 12:30 PM</i> <i>Hall: Arizona Ballroom I, II, III</i> <i>Twitter Tag: #mm11nm</i>
<b>Talk 1: When was the last time your project made you smile?: Doing Computer Science that builds Social Capital</b> Speaker: Svetha Venkatesh, Curtin University, Australia 10:30 AM - 11:00 AM
<b>Talk 2: Multimodal Situational Awareness for Societal-scale Emergency Response</b> Speaker: Nalini Venkatasubramanian, University of California, Irvine, USA 11:00 AM - 11:30 AM
<b>Panel and Discussion: Beyond Epsilon Science – Where to Look and How to Realize New Opportunities</b> 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

<b>Poster Plenary Day 2</b> Session Chair: Mei Tao, Microsoft Research <i>Wednesday, November 30, 2011, 12:30 PM - 2:00 PM</i> <i>Hall: Vaquero A, B, C</i> <i>Twitter Tag: #mm11pp2</i>
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.
<b>Short Papers</b>
<b>Exploiting User Information for Image Tag Refinement</b> 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



Digital Media Changsheng Xu, Institute of Automation, Chinese Academy of Sciences & China-Singapore Institute of Digital Media
<b>Known-Item Video Search via Query-to-Modality Mapping</b> Kong-Wah Wan, Institute for Infocomm Research Yan-Tao Zheng, Institute for Infocomm Research Lekha Chaisorn, Institute for Infocomm Research
<b>Transfer Tagging from Image to Video</b> Yang Yang, The University of Queensland Yi Yang, Carnegie Mellon University Zi Huang, The University of Queensland Heng Tao Shen, The University of Queensland
<b>Detection of Pornographic Content in Internet Images</b> Srinivasan H Sengamedu, Yahoo! Labs Bangalore Subhajit Sanyal, Yahoo! Labs Bangalore Sriram Satish, Yahoo! Labs Bangalore
<b>Effective Summarization of Large-Scale Web Images</b> Chunlei Yang, UNC-Charlotte Jialie Shen, Singapore Management University Jianping Fan, UNC-Charlotte
<b>Real-time Human Action Search using Random Forest based Hough Voting</b> Gang YU, Nanyang Technological University Junsong Yuan, Nanyang Technological University Zicheng Liu, Microsoft Research
<b>Ensemble Multi-Instance Multi-Label Learning Approach for Video Annotation Task</b> Xin-Shun Xu, Nanjing University & Shandong University Xiangyang Xue, Fudan University Zhi-Hua Zhou, Nanjing University
<b>Nonparametric Bottom-Up Saliency Detection Using Hypercomplex Spectral Contrast</b> Ce Li, Xi'an Jiaotong University Jianru Xue, Xi'an Jiaotong University Nanning Zheng, Xi'an Jiaotong University Zhiqiang Tian, Xi'an Jiaotong University
<b>Multiclass object detection by combining local appearances and context</b> LiMin Wang, The Chinese University of Hong Kong Yirui Wu, Nanjing University Tong Lu, Nanjing University Kang Chen, Nanjing University
<b>Shared Feature Extraction for Semi-supervised Image Classification</b> Yong Luo, Peking University Dacheng Tao, University of Technology, Sydney Bo Geng, Peking University Chao Xu, Peking University Stephen Maybank, Birkbeck College, London
<b>Difficulty Guided Image Retrieval using Linear Multiview Embedding</b> Yangxi Li, Peking University Bo Geng, Peking University Zheng-Jun Zha, National University of Singapore Dacheng Tao, University of Technology, Sydney Linjun Yang, Microsoft Research Asia Chao Xu, Peking University
<b>Detection and Location of Near-Duplicate Video Sub-Clips by Finding Dense Subgraphs</b> Tianlong Chen, Institute of Computing Technology Chinese Academy of Sciences Shuqiang Jiang, Institute of Computing Technology Chinese Academy of Sciences

Lingyang Chu, Institute of Computing Technology Chinese Academy of Sciences Qingming Huang, Graduate University of Chinese Academy of Sciences
<b>Query Expansion by Spatial Co-occurrence for Image Retrieval</b> Yingfei Li, Peking University Bo Geng, Peking University Zheng-jun Zha, National University of Singapore Yangxi Li, Peking University Dacheng Tao, University of Sydney Chao Xu, Peking University
<b>Social Image Tag Recommendation by Concept Matching</b> Aixin Sun, Nanyang Technological University Sourav S. Bhowmick, Nanyang Technological University Jun-An Chong, Nanyang Technological University
<b>Automatic Image Annotation with Weakly Labeled Dataset</b> Wei Zhang, Fudan University Yao Lu, Fudan University Xiangyang Xue, Fudan University Jianping Fan, Department of Computer Science, UNC-Charlotte
<b>Efficient Approximate Nearest Neighbor Search with Integrated Binary Codes</b> 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
<b>Content Quality Based Image Retrieval With Multiple Instance Boost Ranking</b> Peng Yang, Rutgers University Hui Li, Rutgers University Qingshan Liu, Rutgers University Lin Zhong, Rutgers University Dimitris Metaxas, Rutgers University
<b>Detecting Motion Synchrony by Video Tubes</b> Ying Zheng, Duke University Steve Gu, Duke University Carlo Tomasi, Duke University
<b>Automatic Image Tagging through Information Propagation in a Query Log Based Graph Structure</b> Teresa Bracamonte, University of Chile & Yahoo! Research Latin America Barbara Poblete, University of Chile & Yahoo! Research Latin America
<b>Identifying Authoritative Sources of Multimedia Content</b> Lyndon Kennedy, Yahoo! Labs Malcolm Slaney, Yahoo! Research
<b>Semantic Point Detector</b> 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
<b>Scenic Photo Quality Assessment with Bag of Aesthetics-Preserving Features</b> Hsiao-Hang Su, National Taiwan University Tse-Wei Chen, National Taiwan University Chieh-Chi Kao, National Taiwan University Winston H. Hsu, National Taiwan University Shao-Yi Chien, National Taiwan University
<b>Hybrid Image Summarization</b> Hao Xu, University of Science and Technology of China Jingdong Wang, Microsoft Research Asia

<p>Xian-Sheng Hua, Microsoft Research Asia Shipeng Li, Microsoft Research Asia</p>
<p><b>Multimodal Fusion for Video Copy Detection</b> Xavier Anguera, Telefonica Research Juan Manuel Barrios, University of Chile Tomasz Adamek, Telefonica Research Nuria Oliver, Telefonica Research</p>
<p><b>Pedestrian Detection with Geometric Context from a Single Image</b> Wang Junqiang, Beijing University of Posts and Telecommunications Huadong Ma, Beijing University of Posts and Telecommunications</p>
<p><b>Risk Management for Video-on-Demand Servers leveraging Demand Forecast</b> Di Niu, University of Toronto Hong Xu, University of Toronto Baochun Li, University of Toronto Shuqiao Zhao, UUSee Inc.</p>
<p><b>Prefetching Strategy in Peer-assisted Social Video Streaming</b> Zhi Wang, Tsinghua University Lifeng Sun, Tsinghua University Shiqiang Yang, Tsinghua University Wenwu Zhu, Microsoft Research Asia</p>
<p><b>Resource Allocation for Cloud-based Free Viewpoint Video Rendering for Mobile Phones</b> Dan Miao, University of Science and Technology of China Wenwu Zhu, Microsoft Research Asia Chong Luo, Microsoft Research Asia Chang Wen Chen, State University of New York at Buffalo</p>
<p><b>APRICOD: A Distributed Caching Middleware for Fast Content Discovery of Non-continuous Media Access</b> Zhen Wei Zhao, NUS Graduate School for Integrative Sciences and Engineering, National University of Singapore Wei Tsang Ooi, School of Computing, National University of Singapore</p>
<p><b>Robust Image Registration and Tampering Localization Exploiting Bag of Features Based Forensic Signature</b> Sebastiano Battiato, University of Catania Giovanni Maria Farinella, University of Catania Enrico Messina, University of Catania Giovanni Puglisi, University of Catania</p>
<p><b>Towards Content-based Audio Fragment Authentication</b> Xiangyang Xue, Fudan University Wei Li, Fudan University Yue Yin, Fudan University</p>
<p><b>Cap Detection for Moving People in Entrance Surveillance</b> Rui Min, EURECOM Jean-Luc Dugelay, EURECOM</p>
<p><b>High Efficient Distributed Video Coding with Parallelized Design for Cloud Computing</b> Han-Ping Cheng, National Taiwan University Yun-Chung Shen, National Taiwan University Ja-Ling Wu, National Taiwan University Kiyoharu Aizawa, University of Tokyo</p>
<p><b>Real-time Decoding for LDPC Based Distributed Video Coding</b> Tse-Chung Su, National Taiwan University Yun-Chung Shen, National Taiwan University Ja-Ling Wu, National Taiwan University</p>
<p><b>Mixing Remote Locations using Shared Screen as Virtual Stage</b> Shingo Uchihashi, Fuji Xerox Co., Ltd.</p>

Tsutomu Tanzawa, University of Yamanashi
<b>Measuring The Latency of Cloud Gaming Systems</b> Kuan-Ta Chen, Academia Sinica Yu-Chun Chang, National Taiwan University & Academia Sinica Po-Han Tseng, Academia Sinica Chun-Ying Huang, National Taiwan Ocean University Chin-Laung Lei, National Taiwan University
<b>Distributed Video Coding with Compressive Measurements</b> Hsiao-Yun Tseng, National Taiwan University Yun-Chung Shen, National Taiwan University Ja-Ling Wu, National Taiwan University
<b>Personalized Portraits Ranking</b> Lei Huang, Institute of Computing Technology, Chinese Academy of Sciences Tian Xia, Institute of Computing Technology, Chinese Academy of Sciences Ji Wan, Institute of Computing Technology, Chinese Academy of Sciences Yongdong Zhang, Institute of Computing Technology, Chinese Academy of Sciences Shouxun Lin, Institute of Computing Technology, Chinese Academy of Sciences
<b>A New Analysis Method for Paired Comparison and Its Application to 3D Quality Assessment</b> Jong-Seok Lee, Yonsei University Lutz Goldmann, EPFL Touradj Ebrahimi, EPFL
<b>ImagiLight: A Vision Approach to Lighting Scene Setting</b> Tommaso Gritti, Philips Research Gianluca Monaci, Philips Research
<b>Consensus-based Cross-correlation</b> Florian Schweiger, Technische Universität München Georg Schroth, Technische Universität München Michael Eichhorn, Technische Universität München Eckehard Steinbach, Technische Universität München Michael Fahrmaier, DOCOMO Euro-Labs München
<b>Modeling Motion Visual Perception for Video Quality Assessment</b> Junyong You, Norwegian University of Science and Technology Touradj Ebrahimi, École Polytechnique Fédérale de Lausanne Andrew Perkis, Norwegian University of Science and Technology
<b>Automatic Object Segmentation from Large Scale 3D Urban Point Clouds through Manifold Embedded Mode Seeking</b> Zhiding Yu, Hong Kong University of Science and Technology Chunjing Xu, Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences Jianzhuang Liu, Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences Oscar C. Au, Hong Kong University of Science and Technology Xiaoou Tang, Chinese University of Hong Kong
<b>Key Object-based Static Video Summarization</b> Zhiqiang Tian, Institute of Artificial Intelligence and Robotics, Xi'an Jiaotong University Jianru Xue, Institute of Artificial Intelligence and Robotics, Xi'an Jiaotong University Xuguang Lan, Institute of Artificial Intelligence and Robotics, Xi'an Jiaotong University Ce Li, Institute of Artificial Intelligence and Robotics, Xi'an Jiaotong University Nanning Zheng, Institute of Artificial Intelligence and Robotics, Xi'an Jiaotong University
<b>Example-based Human Motion Extrapolation Based on Manifold Learning</b> Nick C. Tang, Academia Sinica Chiou-Ting Hsu, National Tsing Hua University Tsung-Yi Lin, Academia Sinica Hong-Yuan Mark Liao, Academia Sinica
<b>CuteChat: A Lightweight Tele-immersive Video Chat System</b>

<p>Jiangbo Lu, Advanced Digital Sciences Center  Viet Anh Nguyen, Advanced Digital Sciences Center  Zeping Niu, Nanyang Technological University  Bhavdeep Singh, Nanyang Technological University  Zhiping Luo, Advanced Digital Sciences Center  Minh N. Do, University of Illinois at Urbana-Champaign</p>
<p><b>Energy-aware Complexity Adaptation for Mobile Video Calls</b>  Haiyang Ma, National University of Singapore  Deepak Gangadharan, National University of Singapore  Nalini Venkatasubramanian, University of California, Irvine  Roger Zimmermann, National University of Singapore</p>
<p><b>Fast Frame-rate Up-conversion of Depth Video via Video Coding</b>  Yanjie Li, Tsinghua University  Lifeng Sun, Tsinghua University  Tianfan Xue, Chinese University of HongKong</p>
<p><b>Multimodal QoE Evaluation in P2P-based IPTV Systems</b>  Mu Mu, Lancaster University  Johnathan Ishmael, Lancaster University  Keith Mitchell, Lancaster University  Nicholas Race, Lancaster University  Andreas Mauthe, Lancaster University</p>
<p><b>Blind Navigation with a Wearable Range Camera and Vibrotactile Helmet</b>  Steve Mann, University of Toronto  Jason Huang, University of Toronto  Ryan Janzen, University of Toronto  Raymond Lo, University of Toronto  Valmiki Rampersad, University of Toronto  Alexander Chen, University of Toronto  Taqveer Doha, University of Toronto</p>
<p><b>Recognizing Interaction Between Human Performers Using 'Key Pose Doublet'</b>  Snehasis Mukherjee, Indian Statistical Institute  Sujoy Kumar Biswas, Indian Statistical Institute  Dipti Prasad Mukherjee, Indian Statistical Institute</p>
<p><b>High-Efficient Software Parallel CAVLC Encoder Based on Programmable Stream Processor</b>  Huayou Su, National University of Defense Technology  Chunyuan Zhang, National University of Defense Technology  Jun Chai, National University of Defense Technology  Mei Wen, National University of Defense Technology  Nan Wu, National University of Defense Technology  Ju Ren, National University of Defense Technology</p>
<p><b>A Real-time Database Architecture for Motion Capture Data</b>  Wang Pengjie, Zhejiang University &amp; Dalian Nationalities University  Lau Rynson W.H, City University of Hong Kong  Zhang Mingmin, Zhejiang University  Wang Jiang, City University of Hong Kong  Song Haiyu, Dalian Nationalities University  Pan Zhigeng, Zhejiang University &amp; Hangzhou Normal University</p>
<p><b>Once Upon a Time, I Bought a Movie and It Played Everywhere in My Home</b>  Jay Geagan, IBM Almaden Research Center  Dulce Ponceleon, IBM Almaden Research Center</p>

**PANEL 2****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 &amp; Mozilla Foundation

Zohar Babin, Kaltura

Dick Bulterman, CWI &amp; 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****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 &amp; Yahoo! Research Latin America

**Video Concept Detection using web-based Training Sources**

Damian Borth, University of Kaiserslautern & German Research Center for Artificial Intelligence
<b>CloudTracker: Accelerating Internet Content Distribution by Bridging Cloud Servers and Peer Swarms</b> Zhenhua Li, Peking University
<b>Conformal Geometry Videos</b> Dao T.P. Quynh, Nanyang Technological University
<b>Objects Detection and Recognition for People with Visual Impairment</b> Xiaodong Yang, The City College of New York
<b>Music Genre Classification Using Explicit Semantic Analysis</b> Kamelia Aryafar, Drexel University
<b>Dynamic Batch Mode Active Learning</b> Shayok Chakraborty, Arizona State University
<b>Intelligent Query Formulation for Mobile Visual Search</b> Felix Xinnan Yu, Columbia University
<b>Methods for Sensor-rich Video Management (GeoVid)</b> Zhijie Shen, National University of Singapore
<b>Indexing and Visualization of Presentation Videos</b> Michele Merler, Columbia University
<b>The Building Blocks of Touch-Based Information Delivery</b> Troy McDaniel, Arizona State University
<b>Bilinear deep learning for image classification</b> Sheng-hua Zhong, The Hong Kong Polytechnic University
<b>Building Low-Latency Remote Rendering Systems for Interactive 3D Graphics Rendering on Mobile Devices</b> Shu Shi, University of Illinois at Urbana-Champaign
<b>Image Search 2.0</b> Xirong Li, University of Amsterdam
<b>Beyond Video Searching: Large-scale Web Video Exploration</b> Song Tan, City University of Hong Kong
<b>Acropolis: An Operating System for Real-Time Multistreaming Systems</b> Raoul Rivas, University of Illinois at Urbana-Champaign
<b>Towards Efficient Resource Utilization in Internet Mobile Streaming</b> Yao Liu, George Mason University
<b>Multiple Object Retrieval in Image Databases Using Hierarchical Segmentation Tree</b> Wei-Bang Chen, The University of Alabama at Birmingham
<b>A Multimodality Approach towards Video Genre Detection</b> Richa Tiwari, The University of Alabama at Birmingham
<b>Robust Image Representation for Efficient Recognition and Retrieval</b> Xia Li, University of Texas at San Antonio
<b>'Seeing' ENF: Natural Time Stamp for Digital Video via Optical Sensing and Signal Processing</b> Ravi Garg, University of Maryland
<b>Real-Time Customizable Sound Design Toolkit</b> Diana Siwiak, School of Arts, Media + Engineering
<b>Human-centric Approaches in 3D Tele-Immersive Systems</b> Wanmin Wu, University of Illinois at Urbana-Champaign
<b>From Multimedia Data to Situations</b> Vivek K. Singh, University of California, Irvine
<b>Doctoral Symposium 3: Oral Presentations</b> <i>4:45 PM - 6:00 PM</i>
<b>Oral Presentations</b>
<b>From Local Features to Local Regions</b> 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

<p><b>Modeling 3D Articulated Motions with Conformal Geometry Videos (CGVs)</b>            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</p>
<p><b>Random Partial Paired Comparison for Subjective Video Quality Assessment via HodgeRank</b>            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</p>
<p><b>Saving Bitrate vs. Pleasing Users: Where is the Break-Even Point in Mobile Video Quality?</b>            Wei Song, Queensland University of Technology            Dian Tjondronegoro, Queensland University of Technology            Michael Docherty, Queensland University of Technology</p>
<p><b>Celerity: A Low-Delay Multi-Party Conferencing Solution</b>            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</p>

#### 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

<p><b>Multiple Feature Hashing for Real-time Large Scale Near-duplicate Video Retrieval</b>            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</p>
<p><b>Learning Heterogeneous Data for Hierarchical Web Video Classification</b>            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</p>
<p><b>Coached Active Learning for Interactive Video Search</b>            Xiao-Yong Wei, Sichuan University            Zhen-Qun Yang, Sichuan University</p>
<p><b>Learning Concept Bundles for Video Search with Complex Queries</b>            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</p>

Xiangdong Zhou, Fudan University of China  
Tat-Seng Chua, 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

Jui-Hsin 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

Zhang Liu, Tsinghua University  
 Chaokun Wang, Tsinghua University  
 Yiyuan Bai, Tsinghua University  
 Hao Wang, Tsinghua University  
 Jianmin Wang, Tsinghua University

**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*

**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

**Affect-based Adaptive Presentation of Home Videos**

Xiaohong Xiang, National University Of Singapore  
 Mohan S Kankanhalli, National University Of Singapore

**Example-based Video Remixing Support System**

Naoko Nitta, Osaka University  
 Noboru Babaguchi, Osaka University

**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

Constantine Stephanidis, Foundation for Research and Technology, Institute of Computer Science / University of Crete
<b>Gamifying Intelligent Environments</b> Yefeng Liu, Waseda University Todorka Alexandrova, Waseda University Tatsuo Nakajima, Waseda University
<b>Real Time Object Detection Using A Novel Adaptive Color Thresholding Method</b> Mahdi Bagheri, Shamsipour Intitute Of Technology Mehdi Madani, Islamic Azad University Of Qazvin Ramin Sahba, Shamsipour Intitute Of Technology Amin Sahba, Shamsipour Intitute Of Technology
<b>A Personal Assistive System for Nutrient Intake Monitoring</b> Gregorio Villalobos, University of Ottawa Rana Almaghrabi, University of Ottawa Behnoosh Hariri, University of Ottawa Shervin Shirmohammadi, University of Ottawa

<b>ACM Workshop on Social and Behavioural Networked Media Access (SBNMA'11)</b> 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 <i>Thursday, December 1, 2011, 10:30 AM - 6:00 PM</i> <i>Hall: Vaquero F</i> <i>Twitter Tag: #mm11sb</i>
<b>Welcome</b> <i>10:30 AM - 10:40 AM</i>
<b>SBNMA Paper Session 1</b> Session Chair: Peng Cui, Tsinghua University, China <i>10:40 AM - 12:30 PM</i>
<b>Graph-based Recognition in Photo Collections using Social Semantics</b> Markus Brenner, Queen Mary University of London Ebroul Izquierdo, Queen Mary University of London <i>10:40 AM - 11:00 AM</i>
<b>Event Analytics via Social Media</b> Yuheng Hu, Avaya Labs Research Ajita John, Avaya Labs Research Doree Duncan Seligmann, Avaya Labs Research <i>11:00 AM - 11:20 AM</i>
<b>Pursuing the Holy Grail by Interrelating User Intentions and Bag of Visual Words to Perform Retrieval Adaptation</b> Marian Kogler, Klagenfurt University Mathias Lux, Klagenfurt University <i>11:20 AM - 11:40 AM</i>
<b>Using Media Related User Profiles to Personalize Multimedia Access over Social Networks</b> 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

<i>11:40 AM - 12:00 AM</i>
<b>Measuring Media-based Social Interactions Provided by Smartphone Applications in Social Networks</b> Alan Keller Gomes, University of São Paulo Maria da Graça Campos Pimentel, University of São Paulo <i>12:00 AM - 12:20 PM</i>
<b>Discussion</b> <i>12:20 PM - 12:30 PM</i>
<b>Lunch Break</b> <i>12:30 PM - 2:00 PM</i> <i>Vaquero A, B, C</i>
<b>SBNMA Paper Session 2</b> Session Chair: Charalampos Z. Patrikakis, Technological Education Institute of Piraeus <i>2:00 PM - 3:20 PM</i>
<b>A Hierarchical, Multi-modal Approach for Placing Videos on the Map using Millions of Flickr Photographs</b> Pascal Kelm, TU Berlin (Communication Systems Group) Sebastian Schmiedeke, TU Berlin (Communication Systems Group) Thomas Sikora, TU Berlin (Communication Systems Group) <i>2:00 PM - 2:20 PM</i>
<b>Improving Video Classification via YouTube Video Co-Watch Data</b> John Ruoyu Zhang, Columbia University Yang Song, Google, Inc Thomas Leung, Google, Inc <i>2:20 PM - 2:40 PM</i>
<b>Gaze Movement Inference for User Adapted Image Annotation and Retrieval</b> Navid Haji Mirza, Queen Mary University of London Michael Proulx, Queen Mary University of London Ebroul Izquierdo, Queen Mary University of London <i>2:40 PM - 3:00 PM</i>
<b>Employing Clustering Algorithms to Create User Groups for Personalized Context Aware Services Provision</b> 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 <i>3:00 PM - 3:20 PM</i>
<b>Keynote Address: Learning the Social Pulses of a City from User-Generated Information Sources</b> Speaker: Tat-Seng Chua, National University of Singapore Session Chair: Fei Wang, IBM T.J.Watson Research Center <i>3:20 PM - 4:00 PM</i>
<b>Coffee Break</b> <i>4:00 PM - 4:30 PM</i> <i>South Foyer/Garden</i>
<b>SBNMA Paper Session 3</b> Session Chair: Shiqiang Yang, Tsinghua University <i>4:30 PM - 5:10 PM</i>
<b>Adaptive Multi-view Video Streaming over P2P Networks Considering Quality of Experience</b> Saadet Sedef Savas, Koc University Ahmet Murat Tekalp, Koc University Cihat Goktug Gurler, Koc University

4:30 PM - 4:50 PM
<b>Social and Behavioural Media Access: A Survey</b> Naeem Ramzan, Queen Mary University of London Peng Cui, Tsinghua University Fei Wang, IBM T.J.Watson Research Center Shiqiang Yang, Tsinghua University 4:50 PM - 5:10 PM
<b>Keynote Address: Social Networked Media: Advances and Trends</b> Speaker: Ebroul Izquierdo, Queen Mary University of London Session Chair: Naeem Ramzan, Queen Mary University of London 5:10 PM - 5:50 PM
<b>Closing Remarks</b> 5:50 PM - 6:00 PM

<b>Joint ACM Workshop on Human Gesture and Behavior Understanding (J-HGBU'11)</b> <b>Part 1: International ACM Workshop on Social Signal Processing (SSPW'11)</b> Workshop Chairs: Maja Pantic, Imperial College London Alex Pentland, MIT Alessandro Vinciarelli, University of Glasgow <b>Part 2: International ACM Workshop on Multimedia access to 3D Human Objects (MA3HO'11)</b> Workshop Chairs: Rita Cucchiara, Università di Modena e Reggio Emilia Mohamed Daoudi, TELECOM Lille Alberto del Bimbo, Università di Firenze <i>Thursday, December 1, 2011, 10:30 AM - 6:30 PM</i> <i>Hall: Vaquero E</i> <i>Twitter Tag: #mm11jh</i>
<b>Person Authentication using 3D Human Motion</b> 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
<b>Estimation and Utilization of Articulations in Recovering Non-rigid Structure from Motion using Motion Subspaces</b> Rohith MV, University of Delaware Chandra Kambhamettu, University of Delaware
<b>Human Action Recognition using Multiple Views: A Comparative Perspective on Recent Developments</b> 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
<b>Fully Automatic 3D Facial Expression Recognition using a Region-Based Approach</b> 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
<b>3DPeS: 3D People Dataset for Surveillance and Forensics</b> Davide Baltieri, University of Modena and Reggio Emilia Roberto Vezzani, University of Modena and Reggio Emilia

Rita Cucchiara, University of Modena and Reggio Emilia
<b>3D Partial Face Matching using Local Shape Descriptors</b> Stefano Berretti, Università degli Studi di Firenze Alberto del Bimbo, Università degli Studi di Firenze Pietro Pala, Università degli Studi di Firenze
<b>Multi-stage Feature Point Detection for 3D Human Data</b> Xiang Pan, Department of Computer Science Alexander Agathos, N/A
<b>Human Motion Classification and Management Based on Mocap Data Analysis</b> Harshad Kadu, University of Southern California Maychen Kuo, University of Southern California C.-C. Jay Kuo, University of Southern California
<b>3D Perceptual Shape Feature-based Body Parts Classification and Pose Estimation</b> Gang Hu, Dalhousie University Qigang Gao, Dalhousie University
<b>Landmark Recognition and Retrieval: From 2D to 3D</b> Xian Xiao, National Lab of Pattern Recognition, Institute of Automation, CAS, Beij & China-Singapore Institute of Digital Media, Singapore ChangSheng Xu, National Lab of Pattern Recognition, Institute of Automation, CAS, Beij & China-Singapore Institute of Digital Media, Singapore JinQiao Wang, National Lab of Pattern Recognition, Institute of Automation, CAS, Beij & China-Singapore Institute of Digital Media, Singapore Min Xu, University of Technology, Sydney 123 Broadway & National Lab of Pattern Recognition, Institute of Automation, CAS, Beijing
<b>The Florence 2D/3D Hybrid Face Dataset</b> Andrew D. Bagdanov, Media Integration and Communication Center, University of Florence Alberto Del Bimbo, Media Integration and Communication Center, University of Florence Iacopo Masi, Media Integration and Communication Center, University of Florence
<b>The Sounds of Social Life: Naturalistic (Acoustic) Observation Sampling</b> Matthias R. Mehl, University of Arizona Fenne grosse Deters, University of Arizona
<b>Computational Study of Human Communication Dynamic</b> Louis-Philippe Morency, University of Southern California
<b>A Survey of Perception and Computation of Human Beauty</b> Hatice Gunes, Queen Mary University of London
<b>Behavioral Signal Processing for Understanding (distressed) Dyadic Interactions: Some Recent Developments</b> Panayiotis G. Georgiou, University of Southern California Matthew P. Black, University of Southern California Shrikanth S. Narayanan, University of Southern California
<b>Incorporating Uncertainty in a Layered HMM Architecture for Human Activity Recognition</b> Michael Glodek, University of Ulm Lutz Bigalke, University of Ulm Martin Schels, University of Ulm Friedhelm Schwenker, University of Ulm
<b>Multimodal Recognition of Personality during Short Self-Presentations</b> Ligia Batrinca, University of Trento Bruno Lepri, MIT and FBK Fabio Pianesi, FBK
<b>Automatic Recognition of Coordination Level in an Imitation Task</b> Emilie Delaherche, ISIR Mohamed Chetouani, ISIR



<p><b>International ACM Workshop on Multimedia Technologies for Distance Learning (MTDL'11)</b>  Workshop Chairs:  Rynson Lau, CUHK  Timothy Shih, NCU  Frederick Li, Durham University  Neil Yen, Waseda University  <i>Thursday, December 1, 2011, 2:00 PM - 5:45 PM</i>  <i>Hall: Vaquero G1</i>  <i>Twitter Tag: #mm11mt</i></p>
<p><b>Regular Paper Session</b>  Session Chair: Neil Yen, Waseda University, Japan  <i>2:00PM - 4:05PM</i></p>
<p><b>Interactive Mixed Reality for Collaborative Remote Laboratories</b>  Benjamin Jailly, Telecom Saint-Etienne  Christophe Gravier, Telecom Saint-Etienne  Marius Preda, Telecom SudParis  Jacques Fayolle, Telecom Saint-Etienne</p>
<p><b>A Novel Framework for Distance Education using Asynchronous Interaction</b>  Sujal Wattamwar, Tata Consultancy Services Limited  Tavleen Oberoi, Tata Consultancy Services Limited  Hiranmay Ghosh, Tata Consultancy Services Limited</p>
<p><b>A-VIEW: Real-time Collaborative Multimedia e-Learning</b>  Kamal Bijlani, Amrita Vishwa Vidyapeetham  Jayahari K R, Amrita Vishwa Vidyapeetham  Ancy Mathew, Amrita Vishwa Vidyapeetham</p>
<p><b>Discovering Small-World in Association Link Networks For Web-based Learning</b>  Shunxiang Zhang, Shanghai University  Xiangfeng Luo, Shanghai University  Junyu Xuan, Shanghai University  Xue Chen, Shanghai University  Weimin Xu, Shanghai University</p>
<p><b>A User Evaluation Framework for Web-Based Learning Systems</b>  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</p>
<p><b>Coffee Break</b>  <i>4:05 PM - 4:30 PM</i>  <i>South Foyer/Garden</i></p>
<p><b>Invited Paper Session</b>  Session Chair: Wei Chen, Beijing Institute of Technology, China  <i>4:30 PM - 5:45 PM</i></p>
<p><b>Interactive Tutoring of Cooking Activities with Personalized Multimedia Recipe Search</b>  Qing Li, City University of Hong Kong  Xudong Mao, City University of Hong Kong  Haoran Xie, City University of Hong Kong</p>
<p><b>Game-Based Concept Visualization for Learning Programming</b>  Frederick Li, University of Durham  Christopher Watson, University of Durham</p>
<p><b>Discovery of Implicit Correlation between Shared Information in an Open Environment</b></p>

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*

**Opening remarks:**

Alberto Messina, RAI - Centre for Research and Technological Innovation

Sid-Ahmed Berrani, Orange Labs - France Telecom

*2:00 PM - 2:15 PM*

**Session 1: Media Content Structuring and Indexing**

Session Chair: Alberto Messina, RAI Centre for Research and Technological Innovation

*2:15 PM - 4:00 PM*

**Sequence-based Kernels for Online Concept Detection in Video**

Werner Bailer, JOANNEUM RESEARCH

*2:15 PM - 2:45 PM*

**News Story Clustering from Both What and How Aspects: Using Bag of Word Model and Affinity Propagation**

Wei-Ta Chu, National Chung Cheng University

Chao-Chin Huang, National Chung Cheng University

Wen-Fang Cheng, Industrial Technology Research Institute

*2:45 PM - 3:15 PM*

**From Audio Recurrences to TV Program Structuring**

Alina Elma Abduraman, Orange Labs - France Telecom

Sid-Ahmed Berrani, Orange Labs - France Telecom

Jean-Bernard Rault, Orange Labs - France Telecom

Olivier Le Blouch, Orange Labs - France Telecom

*3:15 PM - 3:45 PM*

**Discussion**

*3:45 PM - 4:00 PM*

**Coffee Break**

*4:00 PM - 4:30 PM*

*South Foyer/Garden*

**Session 2: Media Production and Retrieval Systems and Applications**

Session Chair: Sid-Ahmed Berrani, Orange Labs - France Telecom

*4:30 PM - 6:00 PM*

**Speech Recognition Tools in a Media Retrieval System**

Mike Matton, VRT-medialab

Karel Braeckman, VRT-medialab

*4:30 PM - 5:00 PM*

**Picture-in-Picture Copy Detection Using Spatial Coding Techniques**

Sanjay Purushotham, University of Southern California

Qi Tian, University of Texas at San Antonio

C.-C. Jay Kuo, University of Southern California

*5:00 PM - 5:30 PM*

**Produce. Annotate. Archive. Repurpose - Accelerating the Composition and Metadata Accumulation of TV Content**

Robert Knauf, Chemnitz University of Technology

Jens Kürsten, Chemnitz University of Technology  
 Albrecht Kurze, Chemnitz University of Technology  
 Marc Ritter, Chemnitz University of Technology  
 Arne Berger, Chemnitz University of Technology  
 Stephan Heinich, Chemnitz University of Technology  
 Maximilian Eibl, Chemnitz University of Technology  
 5:30 PM - 6:00 PM

**Discussion and closing remarks**  
 6:00 PM - 6:30 PM

## INDUSTRIAL EXHIBIT / TECHNICAL DEMOS 2

### Industrial Exhibit 2

Session Chair: Roger Zimmermann, National University of Singapore  
 Thursday, December 1, 2011, 10:30 AM - 12:30 PM  
 Hall: South Foyer, West Foyer  
 Twitter Tag: #mm11ie2

#### **Towards A Real Time Public Transport Awareness System: Case Study In Dublin**

Eric Bouillet, IBM Research  
 Luca Gasparini, IBM Research  
 Olivier Verscheure, IBM Research

#### **ARA: The Active Reading Application**

Gene Golovchinsky, FX Palo Alto Laboratory, Inc.  
 Scott Carter, FX Palo Alto Laboratory, Inc.  
 Anthony Dunnigan, FX Palo Alto Laboratory, Inc.

#### **myUnity: A new Platform to Support Communication in the Modern Workplace**

Jacob T Biehl, FX Palo Alto Laboratory, Inc.  
 Thea Turner, FX Palo Alto Laboratory, Inc.  
 William van Melle, FX Palo Alto Laboratory, Inc.  
 Andreas Girsensohn, FX Palo Alto Laboratory, Inc.

### Technical Demos 2

Session Chair: Roger Zimmermann, National University of Singapore  
 Thursday, December 1, 2011, 10:30 AM - 12:30 PM  
 Hall: South Foyer, West Foyer  
 Twitter Tag: #mm11td2

#### **Galaxy Browser: Exploratory Search of Web Videos**

Lei Pang, City University of Hong Kong  
 Song Tan, City University of Hong Kong  
 Hung Khoon Tan, University Tunku Abdul Rahman  
 Chong Wah Ngo, City Univeristy of Hong Kong

#### **A Mobile Location Search System with Active Query Sensing**

Felix X. Yu, Columbia University  
 Rongrong Ji, Columbia University  
 Tongtao Zhang, Columbia University  
 Shih-Fu Chang, Columbia University

#### **Collaborative Authoring of Serious Games for Health**

Florian Mehm, TU Darmstadt, Multimedia Communications Lab - KOM  
 Sandro Hardy, TU Darmstadt, Multimedia Communications Lab - KOM  
 Stefan Göbel, TU Darmstadt, Multimedia Communications Lab - KOM  
 Ralf Steinmetz, TU Darmstadt, Multimedia Communications Lab - KOM

#### **Capturing a Great Photo via Learning from Community-Contributed Photo Collections**

Haojie Li, Dalian University of Technology

<p>Lei Yi, Dalian University of Technology          Jinhui Tang, Nanjing University of Science and Technology          Xiaohui Wang, Dalian University of Technology</p>
<p><b>Changing Video Arrangement for Constructing Alternative Stories</b>          Alberto Piacenza, University of Brescia          Fabrizio Guerrini, University of Brescia          Nicola Adami, University of Brescia          Riccardo Leonardi, University of Brescia          Jonathan Teutenberg, Teesside University          Julie Porteous, Teesside University          Marc Cavazza, Teesside University</p>
<p><b>Visual-based Plant Species Identification from Crowdsourced Data</b>          Hervé Goëau, INRIA, IMEDIA Team          Alexis Joly, INRIA, IMEDIA Team          Souheil Selmi, INRIA, IMEDIA Team          Pierre Bonnet, INRA, UMR AMAP          Elise Mouysset, Tela Botanica Association          Laurent Joyeux, INRIA, IMEDIA Team          Jean-François Molino, IRD, UMR AMAP          Philippe Birnbaum, CIRAD, UMR AMAP          Daniel Bathelemy, CIRAD, BIOS, Direction and INRA, UMR AMAP, F-34398          Nozha Boujemaa, INRIA</p>
<p><b>Dynamic Media Show Drivable by Semantics</b>          Vivek K Singh, University of California, Irvine          Jiebo Luo, Eastman Kodak Company          Dhiraj Joshi, Eastman Kodak Company          Madirakshi Das, Eastman Kodak Company          Phoury Lei, Eastman Kodak Company          Peter Stubler, Eastman Kodak Company</p>
<p><b>SIRE: A Social Image Retrieval Engine</b>          Steven C. H. Hoi, Nanyang Technological University          Pengcheng Wu, Nanyang Technological University</p>
<p><b>Processing of Multimedia Data using the P2G Framework</b>          Paul B. Beskow, Simula Research Laboratory / Department of Informatics, University of Oslo          Håkon K. Stensland, Simula Research Laboratory / Department of Informatics, University of Oslo          Håvard Espeland, Simula Research Laboratory / Department of Informatics, University of Oslo          Espen A. Kristiansen, Simula Research Laboratory / Department of Informatics, University of Oslo          Preben N. Olsen, Simula Research Laboratory / Department of Informatics, University of Oslo          Ståle Kristoffersen, Simula Research Laboratory / Department of Informatics, University of Oslo          Carsten Griwodz, Simula Research Laboratory / Department of Informatics, University of Oslo          Pål Halvorsen, Simula Research Laboratory / Department of Informatics, University of Oslo</p>
<p><b>PositionIt - An Image-based Remote Target Localization System on Smartphones</b>          Qia Wang, University of Missouri          Alex Lobzhanidze, University of Missouri          Suman Deb Roy, University of Missouri          Wenjun Zeng, University of Missouri          Yi Shang, University of Missouri</p>
<p><b>Low-cost Creation of a 3D Interactive Museum Exhibition</b>          David S Monaghan, Dublin City University          James O'Sullivan, Dublin City University          Noel O'Connor, Dublin City University</p>
<p><b>Interactive Rich Reading: Enhanced Book Reading Experience with a Conversational Agent</b>          Koichi Mori, Nokia Research Center</p>

Rafael Ballagas, Nokia Research Center Glenda Revelle, University of Arkansas Hayes Raffle, Nokia Research Center Hiroshi Horii, Nokia Research Center Mirjana Spasojevic, Nokia Research Center
<b>Hierarchical Video Browsing with a 3D Carousel</b> Klaus Schoeffmann, Klagenfurt University Manfred del Fabro, Klagenfurt University
<b>COZI : Crowdsourced and Content-based Zoomable Video Player</b> Axel Carlier, IRIT - ENSEEIHT, University of Toulouse Arash Shafiei, IRIT - ENSEEIHT, University of Toulouse Julien Badie, IRIT - ENSEEIHT, University of Toulouse Salim Bensiali, IRIT - ENSEEIHT, University of Toulouse Wei Tsang Ooi, National University of Singapore
<b>The Director's Lens: An Intelligent Assistant for Virtual Cinematography</b> Christophe Lino, IRISA/INRIA Rennes Marc Christie, IRISA/INRIA Rennes Roberto Ranon, HCI Lab, University of Udine William Bares, Millsaps College
<b>Video2GPS: A Demo of Multimodal Location Estimation on Flickr Videos</b> Gerald Friedland, International Computer Science Insitute Jaeyoung Choi, International Computer Science Insitute Adam Janin, International Computer Science Insitute
<b>Towards a Privacy Preserving Personal Photo Album Manager with Semantic Classification</b> Alexis Fesnin, CNAM/CEDRIC Valerie Gouet-Brunet, CNAM/CEDRIC Scott Kominen, New Jersey Institute of Technology Vincent Oria, New Jersey Institute of Technology Jichao Sun, New Jersey Insitue of Technology
<b>Million-scale Near-duplicate Video Retrieval System</b> Yang Cai, Zhejiang University Linjun Yang, Microsoft Research Asia Wei Ping, Tsinghua University Fei Wang, Microsoft Bing Tao Mei, Microsoft Research Asia Xian-Sheng Hua, Microsoft Bing Shipeng Li, Microsoft Research Asia
<b>Mobile Product Search with Bag of Hash Bits</b> Junfeng He, Columbia University Tai-Hsu Lin, Columbia University Jinyuan Feng, Columbia University Shih-Fu Chang, Columbia University

### POSTER PLENARY DAY 3

<b>Poster Plenary Day 3</b> Session Chair: Bernard Merialdo, EURECOM <i>Thursday, December 1, 2011, 12:30 PM - 2:00 PM</i> <i>Hall: Vaquero A, B, C</i> <i>Twitter Tag: #mm11pp3</i>
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.
<b>Short Papers</b>

<p><b>Learning Frame Relevance for Video Classification</b>  Hua Wang, University of Texas at Arlington  Feiping Nie, University of Texas at Arlington  Heng Huang, University of Texas at Arlington  Yi Yang, Carnegie Mellon University</p>
<p><b>Large Scale Image Search with Geometric Coding</b>  Wengang Zhou, University of Science and Technology of China  Houqiang Li, University of Science and Technology of China  Yijuan Lu, Texas State University  Qi Tian, University of Texas at San Antonio</p>
<p><b>Clothes Search in Consumer Photos via Color Matching and Attribute Learning</b>  Xianwang Wang, Hewlett-Packard Laboratories  Tong Zhang, Hewlett-Packard Laboratories</p>
<p><b>A Fast MAP Adaptation Technique for GMM-supervector-based Video Semantic Indexing Systems</b>  Nakamasa Inoue, Tokyo Institute of Technology  Koichi Shinoda, Tokyo Institute of Technology</p>
<p><b>Compositional Object Pattern: A New Model For Album Event Recognition</b>  Shen-Fu Tsai, University of Illinois at Urbana-Champaign  Liangliang Cao, IBM Watson Research Center  Feng Tang, Hewlett-Packard Labs  Thomas S. Huang, University of Illinois at Urbana-Champaign</p>
<p><b>Learning from Search Engine and Human Supervision for Web Image Search</b>  Linjun Yang, Microsoft Research Asia  Alan Hanjalic, Delft University of Technology</p>
<p><b>Semi-Supervised Face Image Retrieval using Sparse Coding with Identity Constraint</b>  Bor-Chun Chen, National Taiwan University  Yin-Hsi Kuo, National Taiwan University  Yan-Ying Chen, National Taiwan University  Kuan-Yu Chu, National Taiwan University  Winston Hsu, National Taiwan University</p>
<p><b>Level Influence of Spatial Pyramid Matching in Object Classification</b>  Hong Lu, Fudan University  Renzhong Wei, Fudan University  Yanran Shen, Fudan University  Xiangyang Xue, Fudan University</p>
<p><b>Ensemble Approach Based on Conditional Random Field for Multi-Label Image and video Annotation</b>  Xin-Shun Xu, Shandong University &amp; Nanjing University  Yuan Jiang, Nanjing University  Liang Peng, Shandong University  Xiangyang Xue, Fudan University  Zhi-Hua Zhou, Nanjing University</p>
<p><b>Refining Local Descriptors by Embedding Semantic Information for Visual Categorization</b>  Yingbin Zheng, Fudan University  Renzhong Wei, Fudan University  Hong Lu, Fudan University  Xiangyang Xue, Fudan University</p>
<p><b>Common Visual Pattern Discovery via Graph Matching</b>  Hongtao Xie, 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  Huamin Ren, Information Center, Beijing University of Chinese Medicine</p>

<p><b>Environmental Sound Classification for Scene Recognition Using Local Discriminant Bases and HMM</b>  Feng Su, Nanjing University  Li Yang, Nanjing University  Tong Lu, Nanjing University  Gongyou Wang, Nanjing University</p>
<p><b>Semi-Supervised Manifold Ordinal Regression for Image Ranking</b>  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</p>
<p><b>Blurred Image Region Detection and Classification</b>  Bolan Su, National University of Singapore  Shijian Lu, Institute for Infocomm Research  Chew Lim Tan, National University of Singapore</p>
<p><b>Human Group Activity Analysis with Fusion of Motion and Appearance Information</b>  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 &amp; 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</p>
<p><b>Exploring Latent Class Information for Image Retrieval using the Bag-of-Feature Model</b>  Lingqiao Liu, Australian National University  Lei Wang, University of Wollongong</p>
<p><b>Combining Latent Semantic Learning and Reduced Hypergraph Learning for Semi-Supervised Image Categorization</b>  Zhiwu Lu, Peking University  Yuxin Peng, Peking University</p>
<p><b>Optimal Batch Selection for Active Learning in Multi-label Classification</b>  Shayok Chakraborty, Arizona State University  Vineeth Balasubramanian, Arizona State University  Sethuraman Panchanathan, Arizona State University</p>
<p><b>Extracting Intentionally Captured Regions Using Point Trajectories</b>  Yuta Nakashima, Osaka University  Noboru Babaguchi, Osaka University</p>
<p><b>Exploring Self-Similarities of Bag-of-Features for Image Classification</b>  Chih-Fan Chen, Research Center for IT Innovation, Academia Sinica  Yu-Chiang Frank Wang, Research Center for IT Innovation, Academia Sinica</p>
<p><b>Non-rigid 3D Model Retrieval Using Multi-Scale Local Features</b>  Pengjie Li, Beijing University of Posts and Telecommunication  Huadong Ma, Beijing University of Posts and Telecommunication  Anlong Ming, Beijing University of Posts and Telecommunication</p>
<p><b>Marginal-based Visual Alphabets for Local Image Descriptors Aggregation</b>  Miriam Redi, EURECOM  Bernard Merialdo, EURECOM</p>
<p><b>Modeling Multimedia Contents through Probabilistic Feature Signatures</b>  Christian Beecks, RWTH Aachen University  Anca Maria Ivanescu, RWTH Aachen University  Steffen Kirchhoff, RWTH Aachen University  Thomas Seidl, RWTH Aachen University</p>
<p><b>Bag-of-colors for Improved Image Search</b>  Christian Wengert, kooaba AG</p>

Matthijs Douze, INRIA Grenoble Herve Jegou, INRIA Rennes
<b>Asymmetric Hamming Embedding</b> Mihir Jain, INRIA Rennes Herve Jegou, INRIA Rennes Patrick Gros, INRIA Rennes
<b>Spatially-coherent Pyramid Matching Based on Max-pooling</b> Xiangang Cheng, Nanyang Technological University Liang-Tien Chia, Nanyang Technological University
<b>Text and Image Subject Classifiers: Dense Works Better</b> Daan T. J. Vreeswijk, University of Amsterdam Bouke Huurnink, University of Amsterdam Arnold W. M. Smeulders, University of Amsterdam
<b>Automatic Concept-to-Query Mapping for Web-based Concept Detector Training</b> Damian Borth, University of Kaiserslautern Adrian Ulges, German Research Center for Artificial Intelligence (DFKI) Thomas Michael Breuel, University of Kaiserslautern
<b>Hypergraph Spectral Hashing for Similarity Search of Social Image</b> Yueting Zhuang, Zhejiang University Yang Liu, Zhejiang University Fei Wu, Zhejiang University Yin Zhang, Zhejiang University Jian Shao, Zhejiang University
<b>Selecting the Best Faces to Index Presentation Videos</b> Michele Merler, Columbia University John R Kender, Columbia University
<b>A Biologically Inspired Computational Model for Image Saliency Detection</b> 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
<b>Unsupervised Fast Anomaly Detection in Crowds</b> 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
<b>Video Indexing and Recommendation Based on Affective Analysis of Viewers</b> 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
<b>Eventscapes: Visualizing Events over Time with Emotive Facets</b> Brett Adams, Curtin University Dinh Phung, Curtin University Svetha Venkatesh, Curtin University
<b>Signature-Image-Based Event Analysis for Personal Photo Albums</b> Minh-Son Dao, University of Trento Duc-Tien Dang-Nguyen, University of Trento



<p>Francesco G.B. De Natale, University of Trento</p> <p><b>Leveraging Collective Wisdom for Web Video Retrieval through Heterogeneous Community Discovery</b></p> <p>Lin Pang, Chinese Academy of Sciences          Juan Cao, Chinese Academy of Sciences          Yongdong Zhang, Chinese Academy of Sciences          Shouxun Lin, Chinese Academy of Sciences</p>
<p><b>Automatic Preview Generation of Comic Episodes for Digitized Comic Search</b></p> <p>Keiichiro Hoashi, KDDI R&amp;D Laboratories Inc.          Chihiro Ono, KDDI R&amp;D Laboratories Inc.          Daisuke Ishii, Waseda University          Hiroshi Watanabe, Waseda University</p>
<p><b>2D Geon Based Generic Object Recognition</b></p> <p>Xiangqian Yu, New Jersey Institute of Technology          Vincent Oria, New Jersey Institute of Technology          Pierre Gouton, Universite de Bourgogne          Geneviève Jomier, Universite de Paris-Dauphine</p>
<p><b>Image Annotation by Composite Kernel Learning with Group Structure</b></p> <p>Ying Yuan, Zhejiang University          Fei Wu, Zhejiang University          Yueting Zhuang, Zhejiang University          Jian Shao, Zhejiang University</p>
<p><b>Video-to-Shot Tag Allocation by Weighted Sparse Group Lasso</b></p> <p>Xiaofeng Zhu, The University of Queensland          Zi Huang, The University of Queensland          Heng Tao Shen, The University of Queensland</p>
<p><b>Extracting Key Frames from Consumer Videos Using Bi-layer Group Sparsity</b></p> <p>Zheshen Wang, Arizona State University          Mrityunjay Kumar, Eastman Kodak Company          Jiebo Luo, Eastman Kodak Company          Baoxin Li, Arizona State University</p>
<p><b>Spatial Pooling for Transformation Invariant Image Representation</b></p> <p>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</p>
<p><b>Multi-Feature pLSA for Combining Visual Features in Image Annotation</b></p> <p>Rui Zhang, Ryerson University          Lei Zhang, Microsoft Research Asia          Xin-Jing Wang, Microsoft Research Asia          Ling Guan, Ryerson University</p>
<p><b>Tag-Based Social Image Search with Visual-Text Joint Hypergraph Learning</b></p> <p>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</p>
<p><b>Integrating Rich Information for Video Recommendation with Multi-Task Rank Aggregation</b></p> <p>Xiaojian Zhao, Beihang University          Guangda Li, National University of Singapore          Meng Wang, National University of Singapore          Jin Yuan, National University of Singapore</p>

Zheng-Jun Zha, National University of Singapore Zhoujun Li, Beihang University Tat-Seng Chua, National University of Singapore
<b>Quantifying Human Reconstruction Accuracy for VoxelCarving in a Sporting Environment</b> David S Monaghan, Dublin City University Philip Kelly, Dublin City University Noel O'Connor, Dublin City University
<b>Time-aware Co-Training for Indoors Localization in Visual Lifelogs</b> Vladislavs Dovgalecs, University of Bordeaux Remi Megret, University of Bordeaux Yannick Berthoumieu, University of Bordeaux
<b>Automatic Sentence Generation from Images</b> Yoshitaka Ushiku, The University of Tokyo Tatsuya Harada, The University of Tokyo / JST PRESTO Yasuo Kuniyoshi, The University of Tokyo
<b>Audio-Visual Fusion Using Bayesian Model Combination for Web Video Retrieval</b> Vasant Manohar, Raytheon BBN Technologies Stavros Tsakalidis, Raytheon BBN Technologies Pradeep Natarajan, Raytheon BBN Technologies Rohit Prasad, Raytheon BBN Technologies Prem Natarajan, Raytheon BBN Technologies
<b>Enriching and Localizing Semantic Tags in Internet Videos</b> Lamberto Ballan, University of Florence Marco Bertini, University of Florence Alberto Del Bimbo, University of Florence Giuseppe Serra, University of Florence
<b>Scene Segmentation of Wedding Party Videos by Scenario-based Matching with Example Videos</b> Kazuki Sawai, Nagoya University Tomokazu Takahashi, Gifu Shotoku Gakuen University Daisuke Deguchi, Nagoya University Ichiro Ide, Nagoya University Hiroshi Murase, Nagoya University
<b>Content-aware Photo-on-photo Composition for Consumer Photos</b> Aibo Tian, University of Texas at Austin Xuemei Zhang, Hewlett-Packard Labs Daniel R. Tretter, Hewlett-Packard Labs
<b>PhotoFeel: Feeling Your Photo Collection with Graph-based Audiovisual Flocking</b> Cheng-Te Li, National Taiwan University Hsun-Ping Hsieh, National Taiwan University Shou-De Lin, National Taiwan University
<b>Learning to Produce 3D Media from a Captured 2D Video</b> Minwoo Park, Eastman KODAK Company Jiebo Luo, Eastman KODAK Company Andrew Gallagher, Eastman KODAK Company Majid Rabbani, Eastman KODAK Company
<b>A Tool for Authoring Unambiguous Links from Printed Content to Digital Media</b> Andreas Gengensohn, 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
<b>Interactive Digital Scrapbook Generation for Travel Photos Based on Design Principles of</b>

**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**

SIGMM Awardee	Stefan Romberg	University of Augsburg
Google Awardee	Ivan Sipiran	University of Chile
Qualcomm Awardee	Shenghua Zhong	Hong Kong Polytechnic University
UTD Awardee	Song Tan	City University of Hong Kong
ASU Awardee	Xirong Li	University of Amsterdam
NSF Awardee	Zixia Huang	University of Illinois at Urbana-Champaign
NSF Awardee	Ahsan Arefin	University of Illinois at Urbana-Champaign
NSF Awardee	Xiaodong Yang	City College of New York
NSF Awardee	Shu Shi	University of Illinois at Urbana-Champaign
NSF Awardee	Felix Yu	Columbia University
NSF Awardee	Xia Li	University of Texas at San Antonio
NSF Awardee	Neela Sawant	Pennsylvania State University
NSF Awardee	Raoul Rivas	University of Illinois at Urbana-Champaign
NSF Awardee	Wanmin Wu	University of Illinois at Urbana-Champaign
NSF Awardee	Michele Merler	Columbia University
NSF Awardee	Yao Liu	George Mason University
NSF Awardee	Vivek Singh	University of California, Irvine
NSF Awardee	Troy McDaniel	Arizona State University
NSF Awardee	Richa Tiwari	University of Alabama at Birmingham
NSF Awardee	Wei-Bang Chen	University of Alabama at Birmingham



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**NOTES**











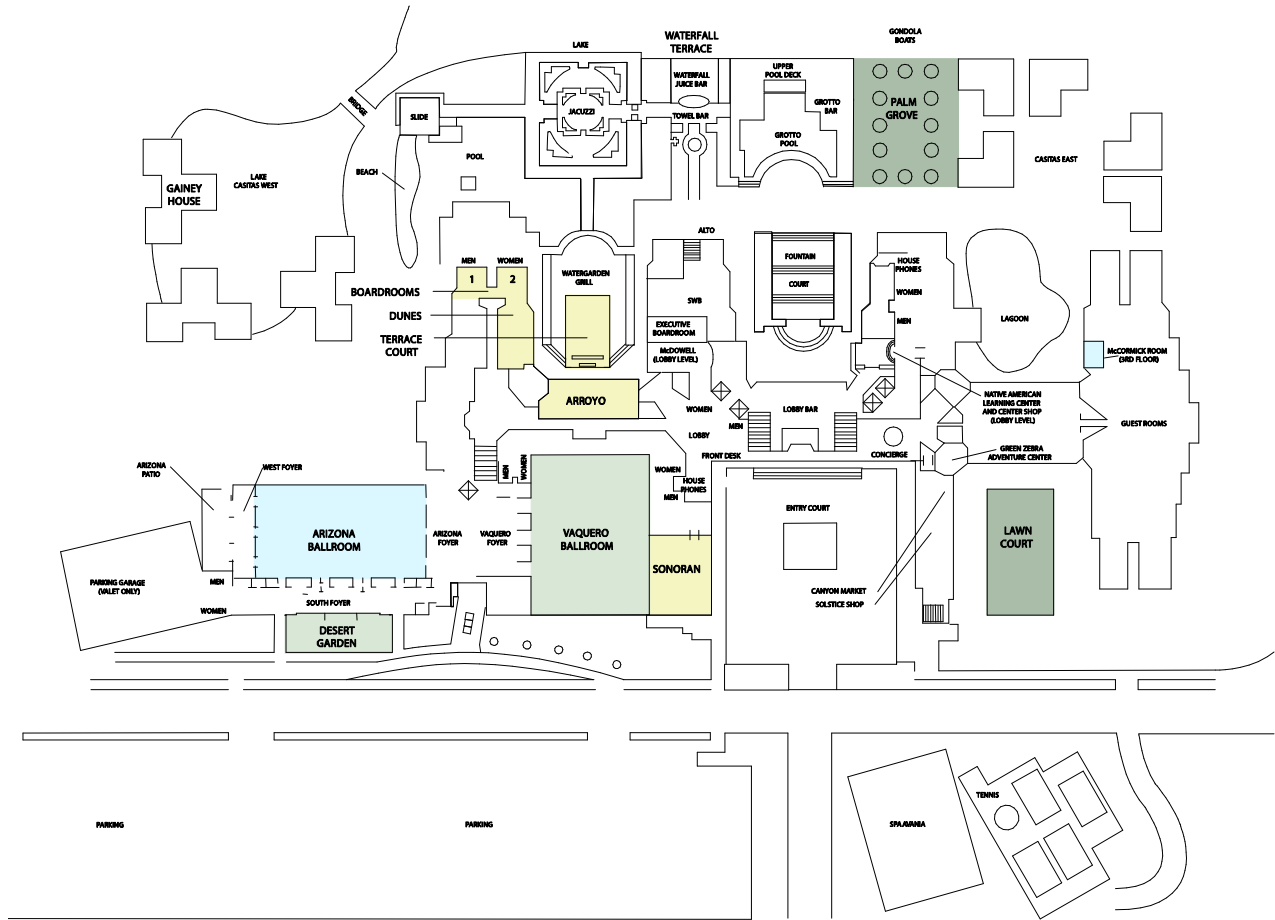
FLOOR PLAN OF HOTEL



Hyatt Regency Scottsdale Resort and Spa At Gainey Ranch

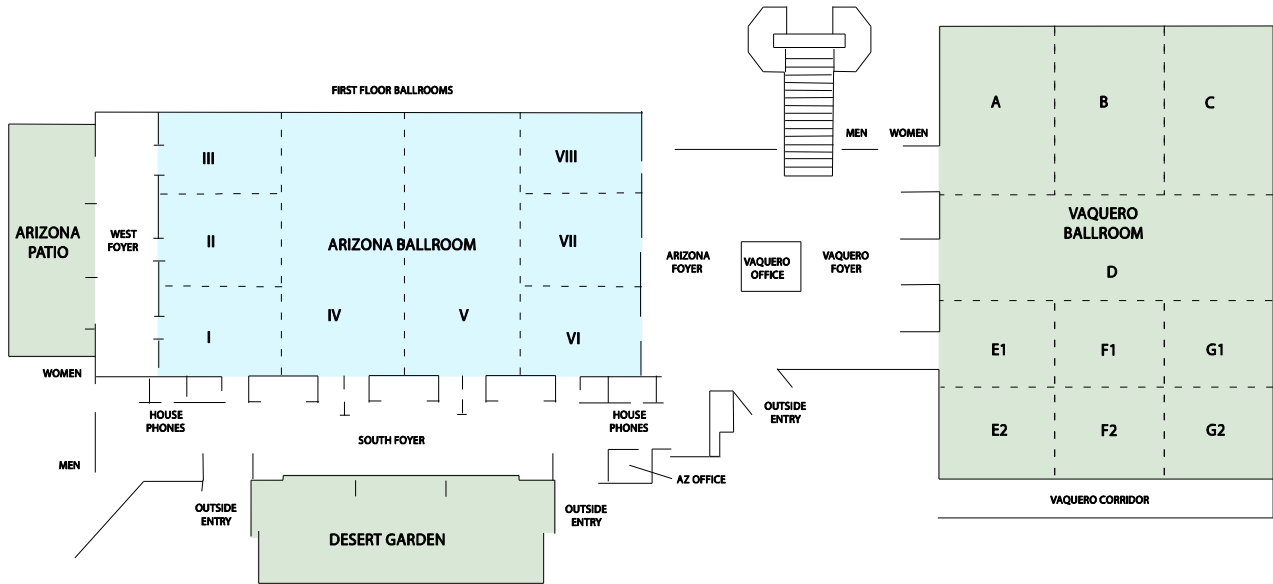
DIRECTIONS

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

## FIRST FLOOR



## SECOND FLOOR / ENTRY LEVEL

