



ACM Multimedia 2010

International Conference

25-29th October 2010, Firenze, Italy

Conference

General | History | People | Program at a glance | Technical Program | Competitions | Interactive Art Exhibit | Tutorials | Workshops
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Program

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Attendees

Welcome to the ACM Multimedia 2010 website

ACM Multimedia 2010 is the worldwide premier multimedia conference and a key event to display scientific achievements and innovative industrial products. The Conference offers to scientists and practitioners in the area of Multimedia **plenary scientific and technical sessions, tutorials, panels** and **discussion meetings** on relevant and challenging questions for the next years horizon of multimedia. The Interactive Art program ACM Multimedia 2010 will provide the opportunity of interaction between artists and computer scientists and investigation on the application of multimedia technologies to art and cultural heritage.

Please look inside the ACM MULTIMEDIA Website for more information.

Conference videos online!

By WEBCHAIRS | Published: FEBRUARY 4, 2011



A. Del Bimbo – Opening Shih-Fu Chang – Opening A. Smeulders – Opening D. Watts – Keynotes



M. Shah – Keynotes R. Jain – Tech. achiev. award E. Kokiopoulou – SIGMM award S. Bhattacharya – Best papers

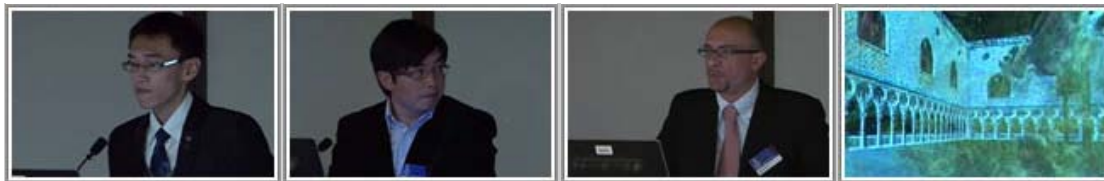
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S. Tan – Best papers

R. Hong – Best papers

S. Milani – Best papers

Exhibit

VideoLectures.net has finally released the videos of the important events recorded during the conference!

ACM Multimedia 2010 Best Paper and Demos Awards at Gala Dinner

By WEBCHAIRS | Published: OCTOBER 29, 2010



ACM Multimedia 2010 Gala Dinner was held yesterday in [Salone dei 500](#) at Palazzo Vecchio. It was a wonderful night in a beautiful place. During the dinner were also awarded the authors of the best paper, best student paper and best demos.

Best paper award: Richang Hong, Meng Wang, Mengdi Xu, Shuicheng Yan, Tat-Seng Chua, *Dynamic Captioning: Video Accessibility Enhancement for Hearing Impairment*

Best student paper award: Nikhil Rasiwasia, Jose Costa Pereira, Emanuele Coviello, Gabe Doyle, Gert Lanckriet, Roger Levy, Nuno Vasconcelos, *A New Approach To Cross-Modal Multimedia Retrieval*

Best demo award: Yang Cao, Hai Wang, Changhu Wang, Zhiwei Li, Liqing Zhang, Lei Zhang, *MindFinder: Interactive Sketch-based Image Search on Millions of Images* and Sabine Susstrunk, Clent Fredembach, Daniel Tamburrino, *Automatic Skin Enhancement with Visible and Near-Infrared Image Fusion*

Congratulations to the authors!

See the photos of the dinner on [Flickr](#)

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Open Source Software Competition Winners!

By WEBCHAIRS | Published: OCTOBER 28, 2010



We are very proud to announce the winners of the ACM Open Source Software Competition 2010

Congratulations!

1. Andrea Vedaldi, Brian Fulkerson, *VLFeat – An open and portable library of computer vision algorithms* – [VLFeat](#)
2. Rob Hess, *An Open-Source SIFT Library* – [Open-Source SIFT](#)
3. Florian Eyben, Martin Woellmer, Bjoern Schuller, *openSMILE – The Munich Versatile and Fast Open-Source Audio Feature Extractor* – [openSMILE](#)

SIGMM Phd Award to Effrosyni Kokiopoulou

By WEBCHAIRS | Published: OCTOBER 28, 2010



[Effrosyni Kokiopoulou](#), received today the SIGMM Phd Award for his thesis *Geometry-Aware Analysis of High-Dimensional Visual Information Sets*. Congratulations!

Keynote Speech of Mubarak Shah at ACM Multimedia 2010

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Dr. [Mubarak Shah](#) held today his keynote speech *Visual Crowd Surveillance is Like Hydrodynamics*. Dr. Mubarak showed novel methods for segmentation of flows in crowd videos at a macroscopic level, and to track individuals, detect and localize abnormal behaviors using social force model at a microscopic level.

Multimedia Grand Challenge 2010 Winners!

By WEBCHAIRS | *Published:* OCTOBER 27, 2010



With a very interesting and inspiring session ended today the edition of the [ACM Multimedia Multimedia Grand Challenge 2010](#).

And the winners are (presenters in bold):

1. **Jana Machajdik**, Allan Hanbury, Julian Stöttinger: *Understanding Affect in Images*.
2. Wei Song, **Dian Tjondronegoro**, Ivan Himawan: *ROI-based Content Adaptation for Mobile Device Usage of Video Conferencing*.
3. **Julien Law-To**, Gregory Grefenstette, Jean-Luc Gauvain, Guillaume Gravier, Lori Lamel, Julien Despres: *Introducing topic segmentation and segmented-based browsing tools into a content based video retrieval system*.

Congratulations to the winners!

Technical Achievement Award to Ramesh Jain

By WEBCHAIRS | *Published:* OCTOBER 27, 2010



Dr. [Ramesh Jain](#), Discussion Rooms Chair of ACM Multimedia 2010, received today the prestigious ACM Special Interest Group on Multimedia (SIGMM) award for Outstanding Technical Contributions to Multimedia Computing, Communications and Applications. Congratulations!

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First Keynote Speech of Duncan Watts at ACM Multimedia 2010

By WEBCHAIRS | *Published:* OCTOBER 26, 2010



[Duncan Watts](#) (author of [Six Degrees: The Science of a Connected Age](#)) opened the ACM Multimedia 2010 Main Conference Program with his keynote speech *Using the Web to do Social Science*. Duncan described, in particular, several interesting experiments concerning the measurement problems of collective behavior and focused on how the study of social networks can overcome this limitation.

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ACM Multimedia 2010 volunteers are ready

By WEBCHAIRS | *Published:* OCTOBER 24, 2010



ACM Multimedia 2010 volunteers have met on Saturday in Palazzo dei Congressi in Florence to plan all the activities to do during the conference.

All these young and talented students also received the ACMMM2010 t-shirt, created by the interaction design lab staff at [MICC](#), in order to be recognizable by all the conference attendees.

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ScientifiCareers, the job board of Multimedia, is online!

By WEBCHAIRS | *Published:* OCTOBER 23, 2010

[ScientifiCareers](#) is a project dedicated to **job opportunities** for young researchers in the field of **Multimedia**.

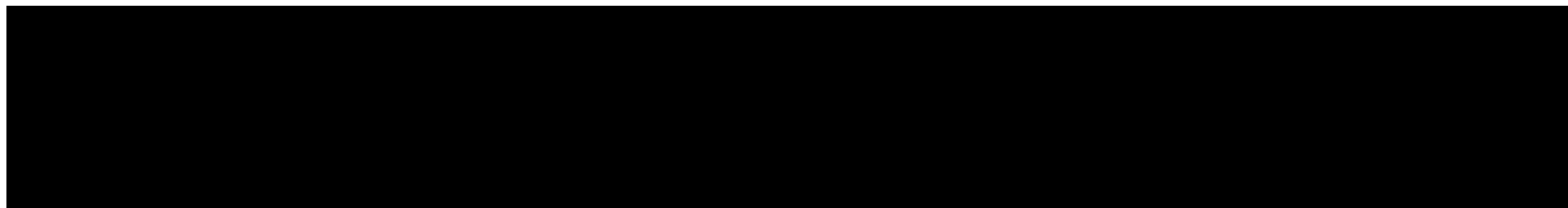


The platform aims to promote the connection between companies and research labs, and to stimulate the exchange of expertise between different research teams.

ScientificCareers is a free platform where professionals, industries and academic institutions can post their job requests in order to get in contact with young and talented researchers all over the world.

« *Older posts*

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« *ACM Multimedia 2010 Best Paper and Demos Awards at Gala Dinner*

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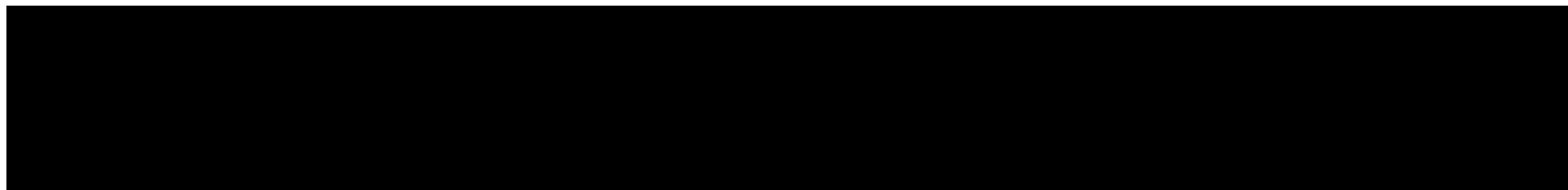
Email *

Website

Comment

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Author Archives: *webchairs*

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General

ACM Multimedia 2010

is the worldwide premier multimedia conference and a key event to display scientific achievements and innovative industrial products. ACM Multimedia 2010 offers to scientists and practitioners in the area of Multimedia **plenary scientific and technical sessions** – with keynote speeches, oral, poster and video presentations, technical demonstrations and exhibits -, **opportunities for deepenings** – organized as discussion rooms, symposiums and tutorials and panels with worldwide recognized scientists and opinion leaders -, and **competitions of research teams** on relevant and challenging questions about the industry's two-five years horizon for multimedia. As a companion event, the **Interactive Art program** will provide the opportunity of interaction between artists and computer scientists and investigation on the application of multimedia technologies to art and cultural heritage. **Workshops associated** to ACM Multimedia 2010 will provide in-focus forums of discussion on some of the most relevant and timely scientific topics in the field.

In more detail the complete program of ACM Multimedia 2010 will include:

Scientific presentations

- **Full Paper** and **Short Paper** program: including oral and poster presentations selected according to the ACM Multimedia policy and organized in four distinct tracks: *Multimedia Content Analysis*, *Multimedia Systems*, *Multimedia Interaction*, *Multimedia Applications*.
- **Brave New Ideas** program: implemented as a special sessions track containing papers extending the boundaries of multimedia research and eventually opening new lines of research development.
- **Video** program: implemented as a special session track of video displays where researchers can demonstrate their systems or applications without having to bring the equipment for a "live" demo.

Interactive Art program

- **Interactive Art** program: implemented as a special session track of multimedia art exhibition, and of applications, and technical solutions for cultural heritage.

Competitions

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Open Source Software Competition: aimed at emphasizing the impact the ACM Multimedia conference on software development and practice.

- **Multimedia Grand Challenge:** presenting challenges from industry leaders, geared to engage the multimedia research community in solving relevant questions about the industry's 2-5 year horizon. For more informations see the [Multimedia Grand Challenge 2010 web site](#)

In-depth courses and discussions

- **Tutorials:** addressing the state-of-the-art developments of multimedia of interest from novices to mature researchers, from people working in academia to industry professionals.
- **Panels:** consisting of discussions with recognized experts, addressing some of the most timely and controversial topics in the field of multimedia.
- **Discussion Rooms:** a new opportunity for researchers to gather freely and start non-structured debates on hot topics of multimedia.
- **Doctoral Symposium:** an opportunity for students involved in the preparation of a PhD to discuss their research issues and ideas with senior researchers, and receive constructive feedback.

Demos and exhibits

- **Technical Demos:** showing what is currently possible regarding all aspects of multimedia technology and its applications.
- **Industrial Exhibit:** providing the exhibition of new multimedia products of industries and companies to stimulate the dialogue between industry and the research community.

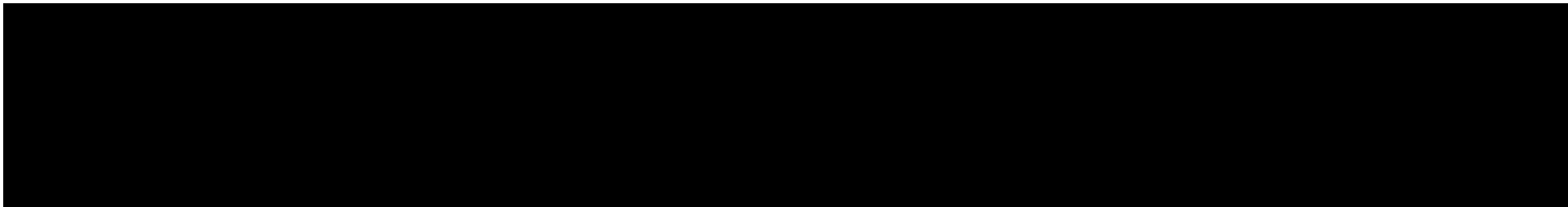
Workshops

- **Workshops** will complement the themes of the main conference with focus on specific thematic subjects that receive significant attention from the research community.

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History

ACM Multimedia is a top quality, extremely selective conference. Both full and short papers submitted to ACM Multimedia undergo a rigorous double-blind reviewing process, carried out by internationally qualified scientists working in the field of Multimedia. At the end of the reviewing process, the Program Committee members meet together to discuss the review scores and select the papers admitted to oral presentation. Finally, the papers selected are sheperded to assure the highest quality of the contribution. The same reviewing process is followed in each of the four tracks.

The **Acceptance Rates for Full Papers** were as follows for the past editions:

- ACM Multimedia 2002, Juan les Pins, France : **14%**
- ACM Multimedia 2003, Berkeley, CA, USA : **17%**
- ACM Multimedia 2004, New York, NY, USA : **17%**
- ACM Multimedia 2005, Singapore, Singapore : **15.7%**
- ACM Multimedia 2006, Santa Barbara, CA, USA : **16%**
- ACM Multimedia 2007, Augsburg, Germany : **16%**
- ACM Multimedia 2008, Vancouver, Canada : **17%**
- ACM Multimedia 2009, Beijing, China : **16.4%**

The **Acceptance Rate for Short Papers** was around **30%** in all the editions.

ACM Multimedia 2010 commits to the same Acceptance Rates of the ACM Multimedia conference series.

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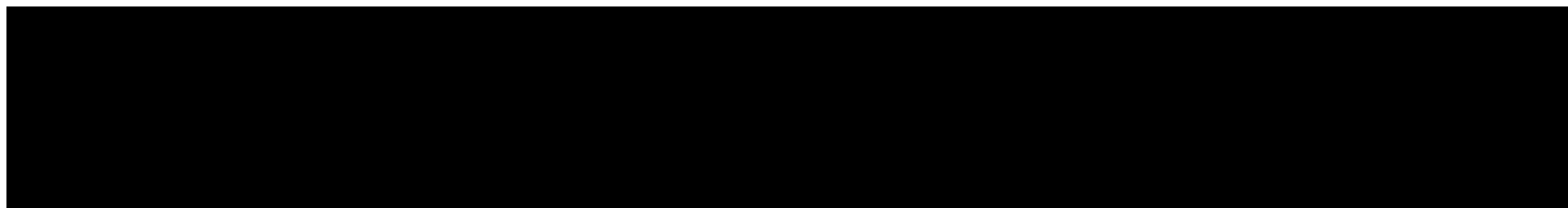


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People

General Chairs

- [Alberto Del Bimbo](#) Univ. of Florence, I
- [Shih-Fu Chang](#) Columbia Univ., USA

Program Coordinator

- [Arnold Smeulders](#) Univ. of Amsterdam, NL

Full Paper program Chairs

- Content: [Jiebo Luo](#) Kodak Research Lab, USA
- Systems: [Shervin Shirmohammadi](#) Univ. of Ottawa, CA *
- Human-centered: [Jie Yang](#) Carnegie Mellon Univ., USA
- Applications: [Touradj Ebrahimi](#) EPFL, CH

Short Paper program Chairs

- Content: [Zhengyou Zhang](#) Microsoft, USA
- Systems: [Wei Tsang Ooi](#) Univ. of Singapore, SG
- Human-centered: [Marc Cavazza](#) Univ. of Teesside, UK
- Applications: [Marcel Worring](#) Univ. of Amsterdam, NL

[TPC Members and Meta TPC Members](#)

Brave New Ideas program Chairs

- [Nozha Boujemaa](#) INRIA Roquencourt, F
- [Alejandro Jaimes](#) Yahoo! Research Barcelona, E

Video program Chairs

- [Shin'ichi Satoh](#) National Inst. Inform. Japan, J
- [Jenny Benois Pineau](#) Univ. of Bordeaux, F

Interactive Art program Chairs

- Art: [Luca Farulli](#) Academy of Fine Arts Venezia, I
- Art: [Andruid Kerne](#) Texas A&M Univ., USA
- Cultural Heritage: [Tiziana Catarci](#) Univ. Roma La Sapienza, I
- Art: [Frank Nack](#) Univ. of Amsterdam, NL
- Cultural Heritage: [James Wang](#) Penn-State Univ., USA

[TPC Members](#)

Open Source Software competition Chairs

- [Hari Sundaram](#) Arizona State Univ., USA
- [Nicu Sebe](#) Univ. of Trento, I

Multimedia Grand Challenge Chairs

- [Malcolm Slaney](#) Yahoo Corp., USA
- [Cees Snoek](#) Univ. of Amsterdam, NL

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- [Marco Bertini](#) Univ. of Florence, I

Tutorials Chairs

- [Alex Loui](#) Kodak Research Lab, USA
- [Xian-Sheng Hua](#) Microsoft Research Asia, China

Panels Chairs

- [Ed Chang](#) Google Corp., China
- [Tat-Seng Chua](#) National Univ. of Singapore, SG

Discussion Rooms Chairs

- [Ramesh Jain](#) Univ. of California at Irvine, USA
- [Forouzan Golshani](#) California State Univ. at Long Beach, USA

Doctorial Symposium Chairs

- [Susanne Boll](#) Univ. of Oldenburg, D
- [Carlo Colombo](#) Univ. of Florence, I

Technical Demo Chairs

- [Xin Chen](#) Navteq Corp., USA
- [Daniel Gatica-Perez](#), IDIAP Research Institute, CH

Industrial Exhibit Chairs

- [Berna Erol](#) RICOH Corp., USA
- [Qi Tian](#) Univ. of Texas at San Antonio, USA

Workshops Chairs

- [Rita Cucchiara](#) Univ. of Modena, I
- [Ajay Divakaran](#) Sarnoff Center, USA

History Preservation Chairs

- [Abed El Saddik](#) Univ. of Ottawa, CA
- [Alan Hanjalic](#) Delft Univ., NL

Travel Grant Chair

- [Lexing Xie](#) IBM Corp., USA

Sponsoring Chairs

- [Qibin Sun](#) HP Labs Shanghai, China
- [Paul Natsev](#) IBM Corp., USA

Publicity Chairs

- **Asia & Far East:** [Winston Hsu](#) National Taiwan Univ., TW
- **Europe & Africa:** [Bernard Merialdo](#) EURECOM, F
- **America :** [Yong Rui](#) Microsoft Research, USA

Proceedings Chair

- [Pietro Pala](#) Univ. of Florence, I
- [Laszlo Bószörmenyi](#) Klagenfurt Univ., A

Web Chairs

- [Gianpaolo D'Amico](#) Univ. of Florence, I
- [Andrea Ferracani](#) Univ. of Florence, I

Local Arrangement Chair

- [Stefano Berretti](#) Univ. of Florence, I

Art Exhibit Technology Chair

- [Nicola Torpei](#) Univ. of Florence, I

Finance Chair

- [Simona Sarti](#) Consulta Umbria Srl, I

Registration Chair

- [Simona Sarti](#) Consulta Umbria Srl, I

Sig MM Chair

- [Klara Nahrstedt](#) Univ. of Illinois, USA

Sig MM Director of conferences

- [Mohan Kankanhalli](#) National Univ. of Singapore, SG

* [Polly Huang](#) of the National Taiwan Univ., TW has been Full Paper Program Chair of the Track System until June 30, 2010

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Program at a glance

ACM Multimedia 2010

MONDAY 25 OCTOBER 2010 - TUTORIALS, WORKSHOPS	TUESDAY 26 OCTOBER 2010 - MAIN CONFERENCE	WEDNESDAY 27 OCTOBER 2010 - MAIN CONFERENCE	THURSDAY 28 OCTOBER 2010 - MAIN CONFERENCE	FRIDAY 29 OCTOBER 2010 - WORKSHOPS
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Legend

= 120min
 = 100min
 = 60min
 = 30min
 = 25min
 = unscheduled time

MONDAY, 25 OCTOBER 2010

ACMMM10 Tutorials

Room	10:00 13:00
Hall 326 Affari	TUTORIAL T01 – <i>Processing Web-Scale Multimedia Data</i> Malcolm Slaney, Edward Chang
Adua 2F Affari	TUTORIAL T08 – <i>Immersive Future Media Technologies</i> Christian Timmerer, Karsten Mller
Hall 226 Affari	TUTORIAL T05 – <i>Mobile Video Streaming in Modern Wireless Networks</i> Mohamed Hefeeda, Cheng-Hsin Hsu
	10:00 17:30
Central A 3F Affari	TUTORIAL T02 – <i>Advances in Multimedia Retrieval</i> <i>Part I: Frontiers in Multimedia Search</i> <i>Part II: Video Search Engines</i>

	Alan Hanjalic, Martha Larson, Cees Snoek, Arnold Smeulders
Central B 3F Affari	TUTORIAL T10 – <i>Human-centered Multimedia Systems: Tutorial Overview</i> Nicu Sebe, Alejandro (Alex) Jaimes, Hamid Aghajan
	14:30 17:30
Hall 326 Affari	TUTORIAL T03 – <i>Understanding Multimedia Content Using Web Scale Social Media Data</i> Dong Xu, Lei Zhang, Jiebo Luo
Adua 2F Affari	TUTORIAL T09 – <i>Modeling Human Behavior with Mobile Phones</i> Daniel Gatica-Perez

ACMMM10 Workshops

Room	9.30 – 17.30
Hall 104 Congressi	WORKSHOP WS01 – <i>eHeritage 2010: 2nd ACM Workshop on eHeritage and Digital Art Preservation</i>
Hall 105 Congressi	WORKSHOP WS02 – <i>ACM Workshop on 3D Object Retrieval</i>
Hall 106 Congressi	WORKSHOP WS03 – <i>MML10: 3rd ACM Workshop on Machine Learning and Music</i>
Hall 4 Congressi	WORKSHOP WS04 – <i>MoViD: ACM Workshop on Mobile Video Delivery</i>
Hall 5 Congressi	WORKSHOP WS05 – <i>WSM2010: 2nd ACM Workshop on Social Media</i>
Hall 6 Congressi	WORKSHOP WS06 – <i>EiMM10: 2nd ACM Workshop on Events in Multimedia</i>

ACMMM10 Special Events

Location	19.30
Deutsches Institut Florenz	DISCUSSION PANEL WITH MONIKA FLEISCHMANN, TAMIKO THIEL AND WOLFGANG STRAUSS. <i>Colour and multimedia art/Farbe und multimediale Kunst</i> Coordinated by Luca Farulli and Frank Nack

TUESDAY, OCTOBER 26

ACMMM10 Main conference

Room	9.15 – 10.45	11.00 – 13.00	14.30 – 16.30	16.45 – 18.45
Auditorium Congressi	PLENARY PL1 OPENING Alberto Del Bimbo, Shih-Fu Chang, Arnold Smeulders KEYNOTE SPEECH Duncan Watts: <i>Using the Web to do Social Science</i>			
Central 2F Affari		ORAL SESSION FULL F1 Content	PANEL PA1 <i>The Use of Non-conventional Means for Media</i>	ORAL SESSION FULL F5 Content

	<i>Automatic Image Tagging</i>	<i>Content Analysis and Understanding</i>	<i>Learning Concepts in Images</i>
Central A 3F Affari	ORAL SESSION FULL F2 Applications / Human-centered <i>User-adapted Media Access</i>	ORAL SESSION FULL F3 Content <i>Classification of Content Elements</i>	ORAL SESSION INTERACTIVE ART IA1 Cultural Heritage Tools
Central B 3F Affari	VIDEO SESSION VIDEO VID1	ORAL SESSION FULL F4 Applications / Content <i>Applications of Geo-tagging</i>	DISCUSSION ROOM – DR1
Adua 2F Affari	ORAL SESSION BRAVE NEW IDEAS BNI1	DOCTORAL SYMPOSIUM DS1	ORAL SESSION FULL F6 Systems <i>Improving Media Delivery</i>
Central GF – Basement Affari	POSTER – DEMO SESSION SHORT S1 , DEMO D1 Human-centered / Content	POSTER – DEMO SESSION SHORT S2 , DEMO D2 Human-centered / Content / Systems	POSTER – DEMO SESSION SHORT S3 , DEMO D3 Applications / Content / Human-centered

ACMMM10 Special Events

Location	13.00 – 14.30
Limonaia	WOMEN RESEARCH MEETING (LUNCH BY SIGMM INVITATION ONLY). THE LUNCH IS BEING SPONSORED BY SIMULA AND SIGMM.
	13.00 – 14.30
Belvedere Congressi	SIGMM TOMCCAP EDITORIAL BOARD MEETING (LUNCH BY INVITATION ONLY)
	20.00 – 22.00
Palazzo Medici Riccardi, Cortile di Michelozzo e Galleria	ART AND MULTIMEDIA EXHIBIT OPENING (ALL ATTENDEES) WELCOME DINNER (ALL ATTENDEES)

WEDNESDAY, OCTOBER 27

ACMMM10 Main Conference

Room	9.15 – 10.45	11.00 – 13.00	14.30 – 16.30	16.45 – 18.45
Central 1F – Adua 1F Affari	PLENARY PL2 TECHNICAL ACHIEVEMENT AWARD PRESENTATION Ramesh Jain <i>Life = Experiences(Events) + Vision</i> BEST PAPER SESSION		PLENARY PL3 MULTIMEDIA GRAND CHALLENGE – MMGC	DISCUSSION ROOM – DR1
Central 2F Affari		ORAL SESSION FULL F7 Applications / Content		PANEL PA2 <i>All Things Mobile: The Present and Future of</i>

	<u>Multimodal Image and Video Search</u>	<u>Mobile Phone Computing Proposers</u>
Central A 3F Affari	ORAL SESSION FULL F8 Applications <u>Assisted Authoring of Media Content</u>	ORAL SESSION FULL F10 Human-centered <u>Improved Interactivity</u>
Central B 3F Affari	ORAL SESSION FULL F9 Systems / Human-centered <u>Enriched and Extended Media Presentation</u>	ORAL SESSION INTERACTIVE ART IA2 Art and Multimedia
Adua 2F Affari	SIGMM GENERAL BUSINESS MEETING SIGMM EXECUTIVE COMMITTEE MEETING	EC CHORUS+ MEETING <u>Think Tank on Social Media</u>
Central GF – Basement Affari	POSTER – DEMO SESSION SHORT S4 , DEMO D4 Applications / Content	POSTER – DEMO SESSION SHORT S5 , DEMO D5 Content / Systems

ACMMM10 Special Events

Location	10.00 – 19.00
Palazzo Medici Riccardi	ART AND MULTIMEDIA EXHIBIT (CONTINUES UNTIL NOVEMBER 6)
	20.00 – 23.00
TBD	EC CHORUS+ DINNER (BY INVITATION ONLY)

THURSDAY, OCTOBER 28

ACMMM10 Main Conference

Room	9.15 – 10.45	11.00 – 13.00	14.30 – 16.30	16.45 – 18.45
Central 1F – Adua 1F Affari	PLENARY PL4 KEYNOTE SPEECH Mubarak Shah: <i>Visual Crowd Surveillance is Like Hydrodynamics</i> SIGMM PHD AWARD PRESENTATION. Effrosyni Kokiopoulou <i>Geometry-Aware Analysis of High-Dimensional Visual Information Sets</i>		DISCUSSION ROOM – DR1	
Central 2F Affari		PANEL PA3 <i>DISPUTATIO on the Use of Ontology for Semantic</i>	ORAL SESSION FULL F14 Content / Applications <u>Detection of Near-duplicate Content</u>	ORAL SESSION FULL F16 Applications / Human-centered / Content <u>Processing of Social Media</u>
Central A 3F Affari		ORAL SESSION FULL F11 Content / Applications	ORAL SESSION FULL F15 Human-centered / Applications	ORAL SESSION BRAVE NEW IDEAS BNI2

	<i>Novel Aids for Music Retrieval</i>	<i>Automatic Generation of Media Content</i>	
Central B 3F Affari	ORAL SESSION FULL F12 Systems <i>3D Video</i>	OPEN SOURCE SOFTWARE COMPETITION – OSSC	
Adua 2F Affari	ORAL SESSION FULL F13 Applications / Human-centered <i>Narrowing the Experience Gap</i>	OPEN WORKSHOP INTERACTIVE MM COMPUTING FOR CREATIVITY AND EXPRESSION – IMW	
Central GF – Basement Affari	POSTER – EXHIBIT SESSION INDUSTRY EXHIBIT IE1 , SHORT IA3 Interactive Art Applications	POSTER – EXHIBIT SESSION INDUSTRY EXHIBIT IE1 , SHORT S6 Applications / Content	POSTER – EXHIBIT SESSION INDUSTRY EXHIBIT IE1 , SHORT S7 Applications / Systems

ACMMM10 Special Events

Location	13.00 – 14.30
TBD	MULTIMEDIA TOOLS AND APPLICATIONS EDITORIAL BOARD MEETING (LUNCH BY INVITATION ONLY)
	20.00 – 23.00
Palazzo Vecchio, Salone dei Cinquecento	GALA DINNER (GALA DINNER REGISTERED ONLY) AWARD PRESENTATIONS

FRIDAY, OCTOBER 29

ACMMM10 Workshops

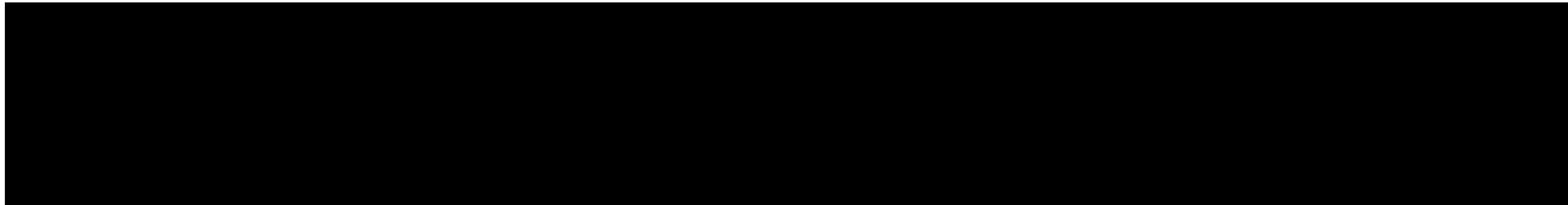
Room	9.30 – 17.30
Adua 1F Affari	WORKSHOP WS07 – <i>MiFor 2010: ACM Workshop on Multimedia in Forensics, Security and Intelligence</i>
Hall 5 Congressi	WORKSHOP WS08 – <i>MTDL 2010: 2nd ACM Workshop on Multimedia Technologies for Distance Learning</i>
Hall 226 Affari	WORKSHOP WS09 – <i>3DVP 2010: ACM Workshop on 3D Video Processing</i>
Central B 3F Affari	WORKSHOP WS10 – <i>SSCS 2010: ACM Workshop on Searching Spontaneous Conversational Speech</i>
Hall 106 Congressi	WORKSHOP WS11 – <i>ARTEMIS2010: ACM Workshop on Analysis and Retrieval of Tracked Events and Motion in Imagery Streams</i>
Hall 4 Congressi	WORKSHOP WS12 – <i>AIEMPro10: 3d ACM Workshop on Automated Information Extraction in Media Production</i>
Central A 3F Affari	WORKSHOP WS13 – <i>VLS-MCMR'10: ACM Workshop on Very-Large-Scale Multimedia Corpus, Mining and Retrieval</i>
Hall 104 Congressi	WORKSHOP WS14 – <i>MPVA 2010: ACM Workshop on Multimodal Pervasive Video Analysis</i>
Hall 101 Congressi	WORKSHOP WS15 – <i>ACM Workshop on Mobile Cloud Media Computing</i>
Hall 326 Affari	WORKSHOP WS16 – <i>ACM Workshop on Advanced Video Streaming Techniques for Peer-to-peer Networks and Social Networking</i>

Adua 2F Affari	WORKSHOP WS17 – <i>AFFINE 2010: 3rd ACM Workshop on Affective Interaction in Natural Environments</i>
Hall 9 Congressi	WORKSHOP WS18 – <i>SAPMIA: ACM Workshop on Social, Adaptive and Personalized Multimedia Interaction and Access</i>
Hall 6 Congressi	WORKSHOP WS19 – <i>CMM 2010: ACM Workshop on Connected Multimedia</i>
Hall 105 Congressi	WORKSHOP WS20 – <i>SSPW 2010: ACM Workshop on Social Signal Processing</i>
Hall 103 Congressi	WORKSHOP WS21 – <i>ACM Workshop on Surreal Media and Virtual Cloning</i>

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ACM Multimedia 2010 International Conference

25-29th October 2010, Firenze, Italy



Conference

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Program

Attendees

You are here: [Home](#) » [Program](#) » Technical Program

Technical Program

ACM Multimedia 2010 Accepted Papers and Contributions

- [Main Conference Full Paper Program](#)
- [Main Conference Short Paper Program](#)
- [Brave New Ideas Program](#)
- [Interactive Art Full Paper Program](#)
- [Interactive Art Short Paper Program](#)
- [Video Program](#)
- [Technical Demo Program](#)
- [Industry Exhibit Program](#)
- [Panels](#)
- [Discussion Room](#)
- [Doctoral Symposium](#)

ACM Multimedia 2010 Preliminary Program

- [Conference session details](#)

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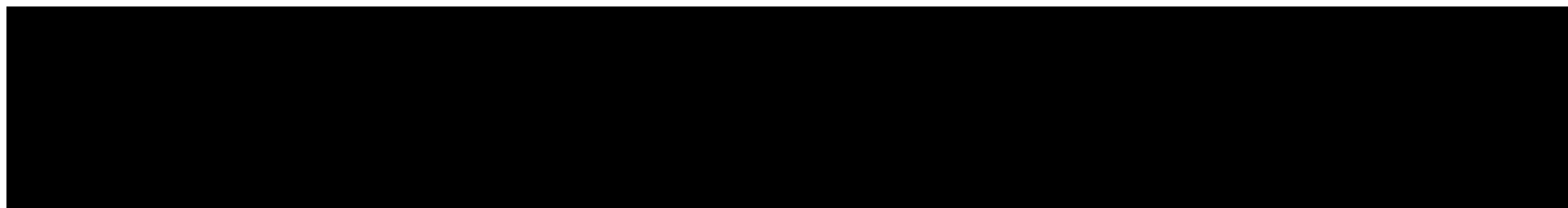


Social



ACM Multimedia 2010 Twitter

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ACM Multimedia 2010 International Conference

25-29th October 2010, Firenze, Italy



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Program

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Competitions

- [Open Source Software Competition](#)
- [Multimedia Grand Challenge](#)

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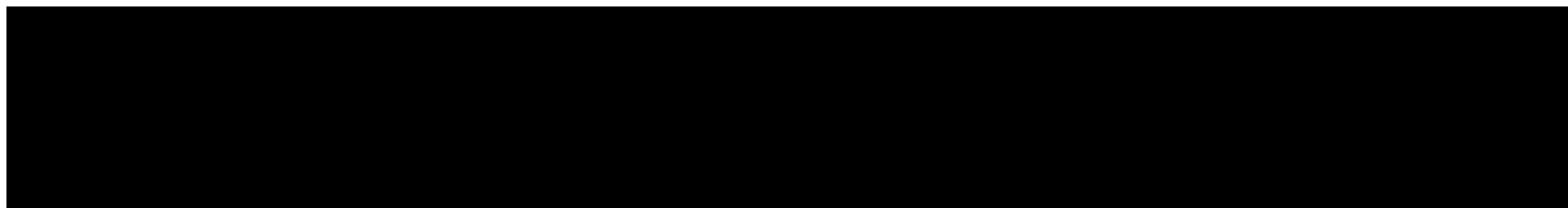


Social



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Attendees

You are here: [Home](#) » [Program](#) » Interactive Art Exhibit

Interactive Art Exhibit

Colorito: An Interactive Renaissance of Color

With this exhibition we try to provide another view on colour in electronic media, covering works from the 1990 until 2010, bridling various media and interaction modes, in hope that the presented collection stimulates the visitor to reflect on their own understanding of what colour mean.

	ARTIST	TITLE	ROOM
4	Thecla Schiphorst	Tendrils & Exhale	1PMR a
5	Victoria Vesna	Blue Morph	1PMR b
6	Studio Azzurro	The Battle of Hector and Achilles	2PMR a
7	Monika Fleischmann & Wolfgang Strauss	Liquid Views	2PMR b
8	Bianco & Valente	Tempo Universale	3PMR
9	Lea Buechley	Living Wall	4PMR
10	Tamiko Thiel	The Travels of Mariko Horo	5PMR
11	Crucible Studio	Alan01	6PMR
12	TPO	CCC Trilogy – The Italian Garden	1GALLERIA
1	Franz Fischnaller	Chromatics... scaling my art	2GALLERIA
2	Wendy Ann Mansilla and Jordi Puig	Chroma Space	3GALLERIA
3	Hung & Jacquemin	Encounter	4GALLERIA

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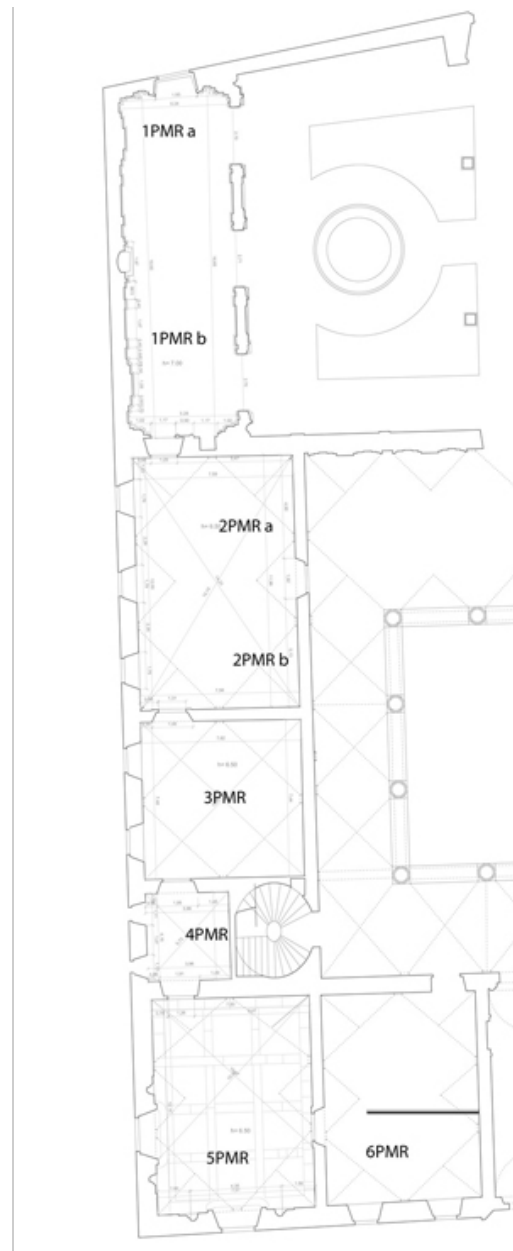
Social



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Galleria Palazzo Medici Riccardi. Via Cavour, Firenze.

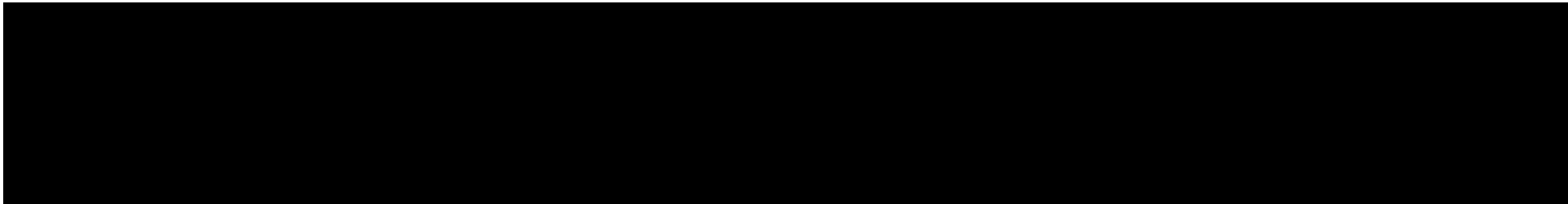


Palazzo Medici Riccardi. Via Cavour, Firenze.
Ground floor, Cortile di Michelozzo

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Program

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Attendees

Tutorials

Content

- [T01 – Processing Web-Scale Multimedia Data](#) (Malcolm Slaney, Edward Chang)
- [T02 – Advances in Multimedia Retrieval \(Frontiers in Multimedia Search and Video Search Engines\)](#) (Alan Hanjalic, Martha Larson, Cees Snoek, Arnold Smeulders)
- [T03 – Understanding Multimedia Content Using Web Scale Social Media Data](#) (Dong Xu, Lei Zhang, Jiebo Luo)

Systems

- [T05 – Mobile Video Streaming in Modern Wireless Networks](#) (Mohamed Hefeeda, Cheng-Hsin Hsu)
- [T08 – Immersive Future Media Technologies](#) (Christian Timmerer, Karsten Müller)

Human Centered

- [T09 – Modeling Human Behavior with Mobile Phones](#) (Daniel Gatica-Perez)
- [T10 – Human-Centered Multimedia Systems](#) (Nicu Sebe, Alejandro (Alex) Jaimes, Hamid Aghajan)

T01 – Processing Web-Scale Multimedia Data

[Malcolm Slaney](#), [Edward Chang](#)

Abstract: In the last few years we have received access to multimedia databases with billions of objects. The massive change in the amount of data available to researchers is changing the face of multimedia. In many domains, speech-recognition is most notable, people have observed that the best way to improve their algorithm's performance is to add more data. Starting with hidden-Markov models (HMMs) and support-vector machines, people have applied ever greater amounts of data to their problems and been rewarded with new levels of performance.

Details: [T01 – Processing Web-Scale Multimedia Data](#)

Duration: half day

T02 – Advances in Multimedia Retrieval

[Alan Hanjalic](#), [Martha Larson](#), [Cees Snoek](#), [Arnold Smeulders](#)

Abstract: Multimedia that cannot be found is, in a certain sense, useless. It is lost in a huge collection, or worse, in a back alley of

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ACM Multimedia 2010 Twitter

the Internet, never viewed and impossible to reuse. Research in multimedia retrieval is directed at developing techniques that bring video together with users – matching multimedia content and user needs. The aim of this tutorial is to provide insights into the most recent developments in the field of multimedia retrieval and to identify the issues and bottlenecks that could determine the directions of research focus for the coming years. This tutorial targets new scientists in the field of multimedia retrieval, providing instruction on how to best approach the multimedia retrieval problem and examples of promising research directions to work on. It is also designed to benefit active multimedia retrieval scientists — those who are searching for new challenges or re-orientation. The material covered is relevant for participants from both academia and industry. It covers issues pertaining to the development of modern multimedia retrieval systems and highlights emerging challenges and techniques anticipated to be important for the future of multimedia retrieval.

Part 1: Frontiers in Multimedia Search ([Alan Hanjalic](#), [Martha Larson](#))

In this part of tutorial we present a whirlwind tour of hot new multimedia search techniques, covering strategies that exploit users, the collection as a whole and analysis of individual content items. We focus on improving the overall usefulness of search systems. Discussion of information retrieval and speech/language-based techniques is included.

Part 2: Video Search Engines ([Cees Snoek](#), [Arnold Smeulders](#))

In this part of the tutorial we focus on the challenges in video search, present methods how to achieve state-of-the-art performance, and indicate how to obtain improvements in the near future. Moreover, we give an overview of the latest developments and future trends in the field on the basis of the TRECVID competition – the leading competition for video search engines run by NIST – where we have achieved consistent top performance over the years, including the 2008 and 2009 editions.

Details: [T02 – Advances in Multimedia Retrieval](#)

Duration: full day

T03 – Understanding Multimedia Content Using Web Scale Social Media Data

[Dong Xu](#) , [Lei Zhang](#) , [Jiebo Luo](#)

Abstract: Nowadays, increasingly rich and massive social media data (such as texts, images, audios, videos, blogs, and so on) are being posted to the web, including social networking websites (e.g., MySpace, Facebook), photo and video sharing websites (e.g., Flickr, YouTube), and photo forums (e.g., Photosig.com and Photo.net). Recently, researchers from multidisciplinary areas have proposed to use data-driven approaches for multimedia content understanding by leveraging such unlimited web images and videos as well as their associated rich contextual information (e.g., tag, comments, category, title and metadata). In our three hour tutorial, we plan to introduce the important general concepts and themes of this timely topic. We will also review and summarize the recent multimedia content analysis methods using web-scale social media data as well as present insight into the challenges and future directions in this area. Moreover, we will also show extensive demos on image annotation and retrieval by using rich social media data.

Details: [T03 – Understanding Multimedia Content Using Web Scale Social Media Data](#)

Duration: half day

T05 – Mobile Video Streaming in Modern Wireless Networks

[Mohamed Hefeeda](#), [Cheng-Hsin Hsu](#)

Abstract: Modern mobile devices, such as laptops, PDAs (Personal Digital Assistants), smart phones, and PMPs (Portable Media Players), have evolved to powerful mobile computers and can render rich multimedia content. Increasingly more users use mobile devices to watch videos streamed over wireless networks, and they demand more content at better quality. For example, market forecasts reveal that mobile video streaming, such as mobile TV, will catch up with gaming and music, and become the most popular application on mobile devices: more than 140 million subscribers worldwide by 2011. In this tutorial, we will present different approaches to deliver multimedia content over various wireless networks to many mobile users. We will study and analyze the main research problems in modern wireless networks that need to be addressed in order to enable efficient mobile multimedia services. The tutorial will cover common research problems in wireless networks such as HSDPA (High-Speed Downlink Packet Access), MBMS (Multimedia Broadcast Multicast Services) extension of cellular networks, WiMAX (Worldwide Interoperability for

Microwave Access), LTE (Long Term Evolution), DVB-H (Digital Video Broadcasting – Handheld), and ATSC M/H (Advanced Television Systems Committee – Mobile/ Handheld). After giving the preliminaries of the considered wireless network standards, we will focus on several important research problems and present their solutions in details. These research problems include: (i) maximizing energy saving of mobile receivers, (ii) maximizing bandwidth utilization of wireless networks, (iii) minimizing stream switching time, and (iv) supporting heterogeneous mobile receivers. Finally, we will discuss open problems and future research directions in mobile multimedia.

Details: [T05 – Mobile Video Streaming in Modern Wireless Networks](#)

Duration: half day

T08 – Immersive Future Media Technologies

[Christian Timmerer](#), [Karsten Müller](#)

Abstract: The past decade has witnessed a significant increase in the research efforts around the Quality of Experience (QoE) which is generally referred to as a human-centric paradigm for the Quality of a Service (QoS) as perceived by the (end) user. As it puts the end user in the center stage, it may have various dimensions and one dimension recently gained momentum is 3D video. Another dimension aims at going beyond 3D and promises advanced user experience through sensory effects, both introduced briefly in the following. 3D Video: Stereo and Multi-View Video Technology: 3D related media technologies have recently developed from pure research-oriented work towards applications and products. 3D content is now being produced on a wider scale and first 3D applications have been standardized, such as multi-view video coding for 3D Blu Ray disks. This part of the tutorial starts with an overview on 3D in the form of stereo video based systems, which are currently being commercialized. Here, stereo formats and associated coding are introduced. This technology is used for 3D cinema applications and mobile 3DTV environments. For the latter, user requirements and profiling will be introduced as a form to assess user quality of experience. For 3D home entertainment, glasses-free multi-view displays are required, as more than one user will watch 3D content. For such displays, the current stereo solutions need to be extended. Therefore, new activities in 3D video are introduced. These 3D solutions will develop a generic 3D video format with color and supplementary geometry data, e.g. depth maps, and associated coding and rendering technology for any multi-view display, independent of the number of views. As such technology is also developed in international consortia, the most prominent, like the 3D@HOME consortium, the EU 3D, Immersive, Interactive Media Cluster and the 3D video activities in ISO-MPEG are introduced. Advanced User Experience through Sensory Effects: This part of the tutorial addresses a novel approach for increasing the user experience – beyond 3D – through sensory effects. The motivation behind this work is that the consumption of multimedia assets may stimulate also other senses than vision or audition, e.g., olfaction, mechanoreception, equilibrioception, or thermoception that shall lead to an enhanced, unique user experience. This could be achieved by annotating the media resources with metadata (currently defined by ISO/MPEG as part of the MPEG-V standard) providing so-called sensory effects that steer appropriate devices capable of rendering these effects (e.g., fans, vibration chairs, ambient lights, perfumer, water sprayers, fog machines, etc.). In particular, we will review the concepts and details of the forthcoming MPEG-V standard and present our prototype architecture for the generation, transport, decoding and use of sensory effects. Furthermore, we will present details and results of a series of formal subjective quality assessments which confirm that the concept of sensory effects is a vital tool for enhancing the user experience.

Details: [T08 – Immersive Future Media Technologies](#)

Duration: half day

T09 – Modeling Human Behavior with Mobile Phones

[Daniel Gatica-Perez](#)

Abstract: In just a few years, mobile phones have emerged as the ultimate multimedia device. Current smartphones allow us to take pictures, listen to music, watch videos, interact with the physical world through GPS, communicate via calls, SMS, or MMS, and browse the web. Given their ubiquity, mobile phones have become the most natural device for multimedia consumption, production, and interaction, but there is much more to it. Mobile phones can constantly sense people's location via GPS or cell tower connectivity, motion through accelerometers, proximity via Bluetooth, and communication through call and SMS logs, and thus represent the most accurate and nonintrusive current means of tracing real-life human activities. Furthermore, all this

information, as never before, is being generated at massive scales. It is therefore not surprising that the understanding of personal and social behavior from mobile sensor data at large-scale, where populations of hundreds or thousands of cell phone users are analyzed both as individuals or groups over possibly long periods of time, has emerged as a frontier domain in computing and in social science. This domain has also attracted attention from the media. The concept of Reality Mining, coined at MIT, was identified as one of the 10 technologies “most likely to change the way we live” by Technology Review Magazine in 2008, and featured in mainstream media like Newsweek and The Economist and scientific media like Nature.

Details: [T09 – Modeling Human Behavior with Mobile Phones](#)

Duration: half day

T10 – Human-Centered Multimedia Systems

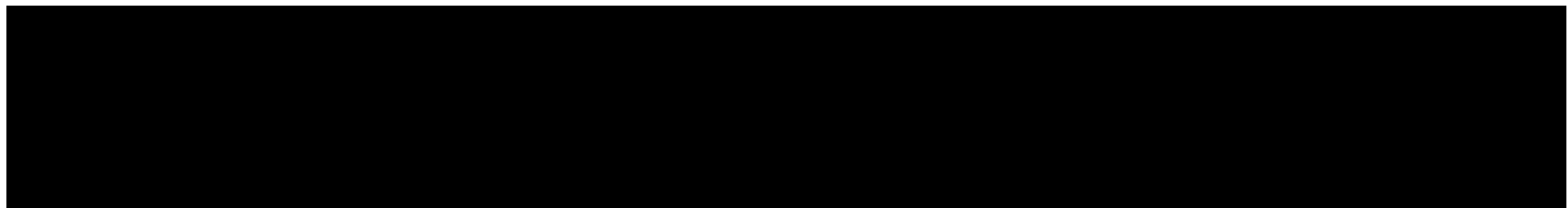
[Nicu Sebe](#), [Alejandro \(Alex\) Jaimes](#), [Hamid Aghajan](#)

Abstract: This tutorial will focus on technical analysis and interaction techniques formulated from the perspective of key human factors in a user-centered approach to developing multimedia systems. The tutorial will take a holistic view on the research issues and applications of Human-Centered Systems, focusing on three main areas: (1) multimodal interaction: visual (body, gaze, gesture) and audio (emotion) analysis; (2) image indexing, and retrieval: user behavior, context modeling, cultural issues, and machine learning for user-centric approaches; (3) multimedia data: conceptual analysis at different levels (feature, cognitive, and affective). This full-day tutorial will consist of two parts: the first half will consist of presentations by the instructors, and the second part will consist of practical workgroup activities.

Details: [T10 – Human-Centered Multimedia Systems Tutorial](#)

Duration: full day

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Program

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Attendees

Workshops

Workshops on Monday, October 25, 2010

Multimedia Content

- [WS01 – eHeritage 2010: 2nd ACM Workshop on eHeritage and Digital Art Preservation](#)
- [WS02 – ACM Workshop on 3D Object Retrieval](#)
- [WS03 – MML10: 3rd ACM Workshop on Machine Learning and Music](#)

Multimedia Technologies and Systems

- [WS04 – MoViD: ACM Workshop on Mobile Video Delivery](#)

Multimedia Trends

- [WS05 – WSM2010: 2nd ACM Workshop on Social Media](#)
- [WS06 – EiMM10: 2nd ACM Workshop on Events in Multimedia](#)

Workshops on Friday, October 29, 2010

Multimedia Content

- [WS07 – MiFor 2010: ACM Workshop on Multimedia in Forensics, Security and Intelligence](#)
- [WS08 – MTDL 2010: 2nd ACM Workshop on Multimedia Technologies for Distance Learning](#)
- [WS09 – 3DVP 2010: ACM Workshop on 3D Video Processing](#)
- [WS10 – SSCS 2010: ACM Workshop on Searching Spontaneous Conversational Speech](#)
- [WS11 – ARTEMIS2010: ACM Workshop on Analysis and Retrieval of Tracked Events and Motion in Imagery Streams](#)
- [WS12 – AIEMPro10: 3d ACM Workshop on Automated Information Extraction in Media Production](#)

Multimedia Technologies and Systems

- [WS13 – VLS-MCMR'10: ACM Workshop on Very-Large-Scale Multimedia Corpus, Mining and Retrieval](#)
- [WS14 – MPVA 2010: ACM Workshop on Multimodal Pervasive Video Analysis](#)
- [WS15 – ACM Workshop on Mobile Cloud Media Computing](#)
- [WS16 – ACM Workshop on Advanced Video Streaming Techniques for Peer-to-peer Networks and Social Networking](#)

Multimedia Trends

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WS17 – AFFINE 2010: 3rd ACM Workshop on Affective Interaction in Natural Environments

- [WS18 – SAPMIA: ACM Workshop on Social, Adaptive and Personalized Multimedia Interaction and Access](#)
- [WS19 – CMM 2010: ACM Workshop on Connected Multimedia](#)
- [WS20 – SSPW 2010: ACM Workshop on Social Signal Processing](#)
- [WS21 – ACM Workshop on Surreal Media and Virtual Cloning](#)

WS01 – eHeritage 2010: 2nd ACM Workshop on eHeritage and Digital Art Preservation

[Olga Bellon](#), [Matteo Dellepiane](#), [Ilan Shimshoni](#)

Website: <http://www.imago.ufpr.br/ehw10/>

Program: [WS01 – eHeritage 2010: 2nd ACM Workshop on eHeritage and Digital Art Preservation](#)

WS02 – ACM Workshop on 3D Object Retrieval

[Mohamed Daoudi](#), [Michela Spagnuolo](#), [Remco Veltkamp](#)

Website: <http://www-rech.telecom-lille1.eu/acm3dor/>

Program: [WS02 – ACM Workshop on 3D Object Retrieval](#)

WS03 – MML10: 3rd ACM Workshop on Machine Learning and Music

[Rafael Ramirez](#), [Darrell Conklin](#), [Christina Anagnostopoulou](#), [Jose Manuel Iñesta](#)

Website: <http://www.dtic.upf.edu/~rramirez/MML10/>

Program: [WS03 – MML10: 3rd ACM Workshop on Machine Learning and Music](#)

WS04 – MoViD: ACM Workshop on Mobile Video Delivery

[Mainak Chatterjee](#), [Samrat Ganguly](#), [Igor Curcio](#), [Nalini Venkatasubramanian](#)

Website: <http://eecs.ucf.edu/movid/>

Program: [WS04 – MoViD: ACM Workshop on Mobile Video Delivery](#)

WS05 – WSM2010: 2nd ACM Workshop on Social Media

[Steven C.H. Hoi](#), [Jiebo Luo](#), [Roelof van Zwol](#), [Susanne Boll-Westermann](#), [Ioannis \(Yiannis\) Kompatsiaris](#)

Website: <http://www.cais.ntu.edu.sg/~wsm2010/>

Program: [WS05 – WSM2010: 2nd ACM Workshop on Social Media](#)

WS06 – EiMM10: 2nd ACM Workshop on Events in Multimedia

[Ansgar Scherp](#), [Ramesh Jain](#), [Mohan S. Kankanhalli](#), [Vasileios Mezaris](#)

Website: <http://www.uni-koblenz.de/confsec/eimm10/>

Program: [WS06 – EiMM10: 2nd ACM Workshop on Events in Multimedia](#)

WS07 – MiFor2010: Multimedia in Forensics, Security and Intelligence

[Sebastiano Battiato](#), [Sabu Emmanuel](#), [Adrian Ulges](#), [Marcel Worring](#)

Website: <http://madm.dfki.de/mifor2010/MiFor2010.html>

Program: [WS07 – MiFor2010: Multimedia in Forensics, Security and Intelligence](#)

WS08 – MTDL 2010: 2nd ACM Workshop on Multimedia Technologies for Distance Learning

[Timothy K. Shih](#), [Rynson Lau](#), [Nadia Magnenat-Thalmann](#)

Website: <http://mtdl2010.mine.tku.edu.tw/>

Program: [WS08 – MTDL 2010: 2nd ACM Workshop on Multimedia Technologies for Distance Learning](#)

WS09 – 3DVP 2010: ACM Workshop on 3D Video Processing

[Oliver Schreer](#), [Emanuele Trucco](#), [Adrian Hilton](#)

Website: http://ip.hhi.de/ACMMM10_Workshop3DVP/

Program: [WS09 – 3DVP 2010: ACM Workshop on 3D Video Processing](#)

WS10 – SSCS 2010: ACM Workshop on Searching Spontaneous Conversational Speech

[Martha Larson](#), [Roeland Ordelman](#), [Florian Metze](#), [Franciska de Jong](#), [Wessel Kraaij](#)

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

Program: [WS10 – SSCS 2010: ACM Workshop on Searching Spontaneous Conversational Speech](#)

WS11 – ARTEMIS2010: ACM Workshop on Analysis and Retrieval of Tracked Events and Motion in Imagery Streams

[Anastasios \(Tasos\) Doulamis](#), [Jordi Gonzalez](#), [Marco Bertini](#)

Website: <http://iselab.cvc.uab.es/artemis2010>

Program: [WS11 – ARTEMIS2010: ACM Workshop on Analysis and Retrieval of Tracked Events and Motion in Imagery Streams](#)

WS12 – AIEMPro10: 3d ACM Workshop on Automated Information Extraction in Media Production

[Alberto Messina](#), [Jean-Pierre Evain](#), [Robbie De Sutter](#), [Masanori Sano](#), [Gerald Friedland](#)

Website: <http://www.crit.ra.i.it/EN/attivita/archivi/AIEMPro10/index.html>

Program: [WS12 – AIEMPro10: 3d ACM Workshop on Automated Information Extraction in Media Production](#)

WS13 – VLS-MCMR'10: ACM Workshop on Very-Large-Scale Multimedia Corpus, Mining and Retrieval

[Benoit Huet](#), [Alex Hauptmann](#), [Tat-Seng Chua](#)

Website: <http://vls-mcmr10.eurecom.fr/>

Program: [WS13 – VLS-MCMR'10: ACM Workshop on Very-Large-Scale Multimedia Corpus, Mining and Retrieval](#)

WS14 – MPVA 2010: ACM Workshop on Multimodal Pervasive Video Analysis

[Vittorio Murino](#), [Hamid Aghajan](#), [Marco Cristani](#), [Nicu Sebe](#)

Website: <http://profs.sci.univr.it/~cristanm/MPVA2010/>

Program: [WS14 – MPVA 2010: ACM Workshop on Multimodal Pervasive Video Analysis](#)

WS15 – ACM Workshop on Mobile Cloud Media Computing

[Xian-Sheng Hua](#), [Chang Wen Chen](#), [Gang Hua](#)

Website: <http://www.mcmc2010.info>

Program: [WS15 – ACM Workshop on Mobile Cloud Media Computing](#)

WS16 – ACM Workshop on Advanced video streaming techniques for peer-to-peer networks and social networking

[Gabriella Olmo](#), [Christian Timmerer](#), [Keith Mitchell](#)

Website: <http://www.p2pstreaming.eu/>

Program: [WS16 – ACM Workshop on Advanced video streaming techniques for peer-to-peer networks and social networking](#)

WS17 – AFFINE 2010: 3rd ACM Workshop on Affective Interaction in Natural Environments

[Genevra Castellano](#), [Kostas Karpouzis](#), [Jean-Claude Martin](#), [Louis-Philippe Morency](#), [Laurel Riek](#), [Christopher Peters](#)

Website: <http://www.cl.cam.ac.uk/conference/affine2010>

Program: [WS17 – AFFINE 2010: 3rd ACM Workshop on Affective Interaction in Natural Environments](#)

WS18 – SAPMIA: ACM Workshop on Social, Adaptive and Personalized Multimedia Interaction and Access

[David Vallet](#), [Naeem Ramzan](#), [Martin Halvey](#), [Charalampos Z. Patrikakis](#)

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

Program: [WS18 – SAPMIA: ACM Workshop on Social, Adaptive and Personalized Multimedia Interaction and Access](#)

WS19 – CMM 2010: ACM Workshop on Connected Multimedia

[Zhongfei \(Mark\) Zhang](#), [Zhengyou Zhang](#), [Ramesh Jain](#)

Website: <http://www.fortune.binghamton.edu/CMM2010/>

Program: [WS19 – CMM 2010: ACM Workshop on Connected Multimedia](#)

WS20 – SSPW 2010: ACM Workshop on Social Signal Processing

[Alessandro Vinciarelli](#), [Maja Pantic](#), [Alex Pentland](#)

Website: <http://sspnet.eu/2010/04/sspw/>

Program: [WS20 – SSPW 2010: ACM Workshop on Social Signal Processing](#)

WS21 – ACM Workshop on Surreal Media and Virtual Cloning

[Ebroul Izquierdo, Yang Cai](#)

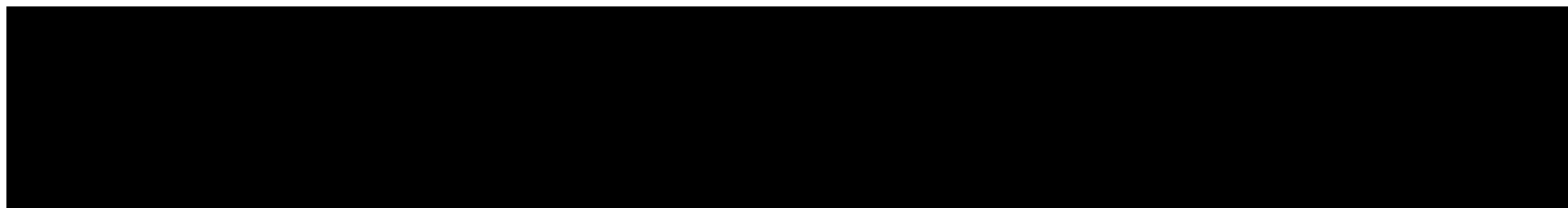
Website: <http://acmmm10-smvc.eecs.qmul.ac.uk/>

Program: [WS21 – ACM Workshop on Surreal Media and Virtual Cloning](#)

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ACM Multimedia 2010

International Conference

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Registration

Registration fees (in EUROS)

	EARLY REGISTRATION (BEFORE SEPTEMBER 15TH)				LATE REGISTRATION (AFTER SEPTEMBER 15TH)			
	ACMMM10 Main Conference	ACMMM10 Workshops	ACMMM10 Tutorials (half-day / full-day)	ACMMM10 2-Pack	ACMMM10 Main Conference	ACMMM10 Workshops	ACMMM10 Tutorials (half-day / full-day)	ACMMM10 2-Pack
ACM Member	560	220	100 / 150	700	660	260	100 / 150	830
NON-ACM Member	680	250	150 / 200	830	820	300	150 / 200	970
Student	250	130	70 / 100	330	280	150	70 / 100	390
Gala Dinner	48							

Note: when registering a paper use the paper id provided by Sheridan Printing.

[Scholarships and Grants](#) | [Visa and Invitation Letters](#)

Registration details

- Registration to ACMMM10 Main Conference includes:
 - admission to ACMMM10 sessions
 - 1 electronic copy of the ACMMM10 Proceedings
 - admission to ACMMM10 Interactive Art Exhibit
 - admission to ACMMM10 Welcome Dinner at Palazzo Medici Riccardi
 - coffee breaks
 It does not include the ACMMM10 Gala Dinner at Palazzo Vecchio.
- Registration to ACMMM10 Workshops includes:
 - admission to ACMMM10 Workshops on October 25th or 29th

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- o 1 electronic copy of the ACMMM10 Proceedings
 - o coffee breaks
 - Registration to ACMMM10 Tutorials includes:
 - o admission to one ACMMM10 Tutorial on October 25th
 - o ACMMM10 Tutorial Handouts
 - 2-Pack special bid includes:
 - o registration to both ACMMM10 Main Conference and Workshops
 - o 1 electronic copy of the ACMMM10 Proceedings
 - o admission to ACMMM10 Interactive Art Exhibit
 - o admission to ACMMM10 Welcome Dinner at Palazzo Medici Riccardi
 - o coffee breaks
- It does not include the ACMMM10 Gala Dinner at Palazzo Vecchio.

Notes

* Early registration applies until September 15th.

* The Gala Dinner will be hosted in the Salone dei Cinquecento at Palazzo Vecchio, downtown Firenze. The number of attendees at the Gala Dinner is limited to 350 for safety reasons. According to this, registrations for the Gala Dinner will be processed on a *First Come First Served* basis. You are invited to check the number of seats still available on the ACMMM10 registration page.

Registration policy

- Each accepted paper at ACMMM10 – with the exception of papers accepted at the Doctoral Symposium Program – must have at least one author registered with the REGULAR (NON-STUDENT) rate at the camera ready submission deadline of July 26th. Each Main Conference REGULAR registration can cover at most 1 Main Conference full paper or 2 Main Conference non-full papers.
- Each accepted paper at a ACMMM10 Workshop must have at least one author registered with the REGULAR (NON-STUDENT) rate at the camera ready submission deadline of August 2nd. Each Workshop REGULAR registration can cover 1 Workshop paper.

Notes

* Registration to a Workshop also allows to access the other Workshops under availability of free seats. Registration to a Tutorial also allows to access the other Tutorials under availability of free seats.

* ACM Member rates are only available to individuals who are ACM Members at the time of registration. To join ACM, please visit www.acm.org website for details. ACM members must input their ACM member id at the time of registration and show their valid ACM membership card at the Conference registration desk. You can register to ACM10 via the Conference website link below.

Payment method

- Payments must be in EURO.
- Online registration and credit card payments are recommended. Attendees not using credit cards must forward a bank draft payable to Consulta Umbria Srl and drawn on Banca Monte dei Paschi di Siena, Ag. 4, Via Baglioni 24, Perugia, IBAN Code: IT43N01030 03004 000000136490 for the total registration amount in EURO.

Cancellation / Refund policy

- Author and Gala Dinner registrations are not cancellable.
- All other cancellations received before September 15th will be subjected to a 200 EURO cancellation fee.
- No refund will be made after September 15th.

Responsibility

- The organizers of ACMMM10 cannot accept any liability for personal accidents, loss or damage of the private property of the

participants nor of damages caused by them to others or others' properties during the Conference and its accompanying events.

- The registration does not include any form of insurance. Conference participants are therefore responsible for making their own insurance arrangements.

Contacts

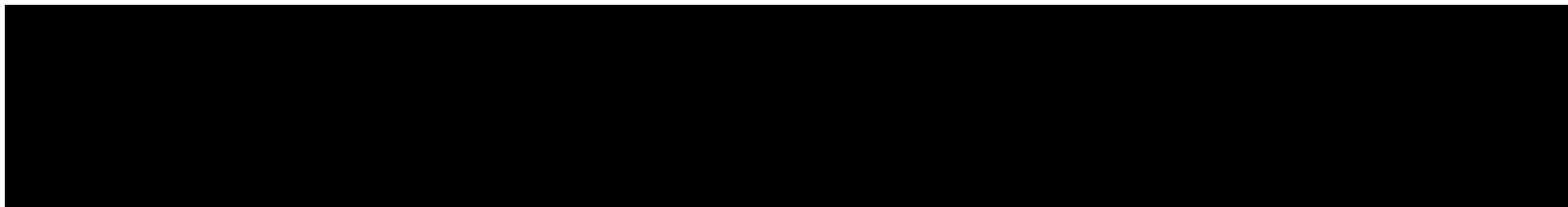
For any questions regarding the conference, please contact Consulta Umbria at 0039-075-5000066 between 9:00 to 17:00 Italy local time (GMT +1:00) or by e-mail acmmm10@consultaumbria.com.

Note: please don't contact Consulta Umbria for hotel reservations, prices, availability and other information that can be found in the registration form. Once you register for the conference you can access again to make the reservation.

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Conference **Program**

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Travel

Firenze is the capital of **Tuscany region** and one of the world art capitals. Information about Firenze can be found at the following websites, among the others:

- [Wikipedia Firenze](#)
- [Official Tourism Board of Firenze](#)
- [Lonely Planet Firenze](#)

Visa

Italy has joined the **Schengen system** giving total freedom of movement within all the territories of the Schengen agreement signatory states. Admission to Italian territory for nationals of all the countries of the European Union and the European Economic Area is permitted if in possession of a valid passport or another travel document recognised as valid by the Italian government. Nationals of any other states outside the Schengen Area should check the visa requirements for admission to Italian territory at: www.esteri.it.

Trasportation

- **By plane**
 - Firenze International Airport "*Amerigo Vespucci*" (IATA code: FLR) is connected to the main European cities. Information is available at: www.aeroporto.firenze.it . It is located 4 km (2.5 miles) from Firenze and it can be reached by taxi (20 minutes) or by the shuttle bus *Vola in bus*, a special connection service from/to the *Vespucci* Airport and *Santa Maria Novella* train station. For additional information call "*Pronto ATAF*" toll free no. 800 424500 (from Italy).
 - Pisa International Airport "*Galileo Galilei*" (IATA code: PSA) is connected to the main European cities. Information is available at: www.pisa-airport.it . It is 60 km (38 miles) from Firenze and can be reached in 1 hour by train from *Santa Maria Novella* train station: 3 trains per hour are scheduled daily from/to Pisa Centrale and Pisa Airport from 06.00 a.m. to 22.00 p.m.
- **By train**

Fast trains "*Freccia Rossa*" connect Firenze to the main cities in Italy: Milan (2h10'), Rome (1h 40'). Train timetable and online ticket purchase can be accessed at www.trenitalia.com . Firenze has four train stations:

 - *Firenze Santa Maria Novella* Central Station (main city station): 80 metres from the Conference venue at Palazzo dei

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Congressi

- *Firenze Rifredi* (most “*Freccia Rossa*” trains stop here; shuttle trains to SMN station run every 10’): 2 km away (1.2 miles)
- *Firenze Campo di Marte*: 2 km away (1.2 miles)
- *Firenze Statuto* 1 km away (0.6 miles)

• **By car**

An efficient motorway network connects Firenze to the rest of Italy and Europe. Routes, maps and travel distances can be found at www.viamichelin.it. The Conference venue at Palazzo dei Congressi is just 7 km (4.5 miles) from the *Firenze Nord* exit of the main Italian motorway A1 “*Autostrada del Sole*”. Two car parkings are just 100 metres away.

Weather

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
RECORD HIGH °C (°F)	19.0 (66)	23.0 (73)	26.1 (79)	29.2 (85)	35.0 (95)	40.0 (104)	42.6 (109)	41.1 (106)	36.4 (98)	31.0 (88)	27.0 (81)	20.4 (69)	42.6 (109)
AVERAGE HIGH °C (°F)	10 (50)	12 (54)	15 (59)	18 (64)	23 (73)	27 (81)	31 (88)	31 (88)	26 (79)	21 (70)	14 (57)	10 (50)	
AVERAGE LOW °C (°F)	1 (34)	3 (37)	4 (39)	7 (45)	11 (52)	14 (57)	17 (63)	17 (63)	14 (57)	10 (50)	5 (41)	2 (36)	
RECORD LOW °C (°F)	-23.2 (-10)	-11.4 (11)	-8.0 (18)	-3.2 (26)	0.8 (33)	5.6 (42)	7.8 (46)	9.2 (49)	3.6 (38)	-2.6 (27)	-6.0 (21)	-10.0 (14)	-23.2 (-10)
PRECIPITATION MM (INCHES)	73 (2.87)	68 (2.68)	81 (3.19)	78 (3.07)	73 (2.87)	55 (2.17)	40 (1.57)	76 (2.99)	78 (3.07)	88 (3.46)	111 (4.37)	94 (3.7)	

Source: [Wikipedia](#)

Time

Official time in Italy is **UTC/GMT +1 hour**. Current local time, together with current weather and weather forecast of Firenze, are available at: www.timeanddate.com

Other useful information

Additional **useful information** can be found in [brief on staying in Firenze](#).

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Accommodation

Firenze is a tourist landmark and has therefore a large offer of hotels in any categories. However, due to the fact that several events can run concurrently in the majority of the year, booking in advance is strongly suggested.

Rooms have been reserved for the ACM Multimedia 2010 attendees in selected hotels in Firenze downtown, at walking distance from the ACM Multimedia 2010 conference location:

4 stars

- [Hotel Albani](#)
- [Grand Hotel Baglioni](#)
- [Hotel Brunelleschi](#)
- [Hotel Carolus](#)
- [Hotel Embassy](#)
- [Hotel L'Orologio](#)
- [Hotel Santa Maria Novella](#)

3 stars superior

- [Hotel Machiavelli Palace](#)
- [Hotel Paris Florence](#)

3 stars

- [Hotel Corona d'Italia](#)
- [Hotel delle Nazioni](#)
- [Hotel Malaspina](#)
- [Hotel Rosso23](#)
- [Hotel Universo](#)

3 stars as 2 stars

- [Hotel Rex](#)

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[Hotel San Giorgio](#)

Economy

- [Autopark Hotel](#)

Booking of reserved rooms is managed through the Conference agency [Consulta Umbria](#). For hotel room booking and any other questions regarding change of the reservations, transportations and special needs attendees should contact Consulta Umbria by sending E-mails to congressi@consultaumbria.com.

Note: due to the hotels summer high season and their many bookings, we suggest participants hurry to book their hotel before August 24th.

Please don't contact Consulta Umbria for hotel reservations, prices, availability and other information that can be found in the registration form. Once you register for the conference you can access again to make the reservation.

Alternatively, people are welcome to also look for their own arrangements via other websites and check for better prices:

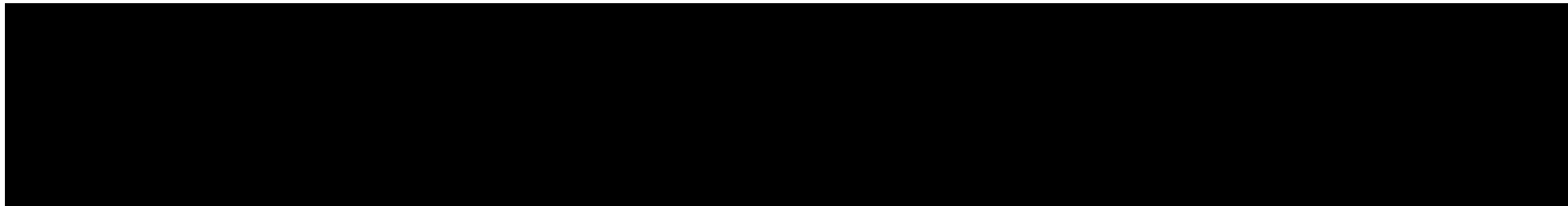
- [Expedia.com](#)
- [Booking.com](#)
- [Venere.com](#)
- [FirenzeTurismo.it](#)

among the others.

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ACM Multimedia 2010

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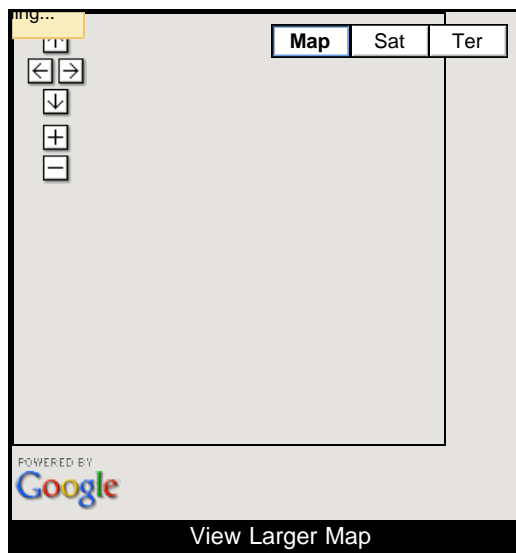
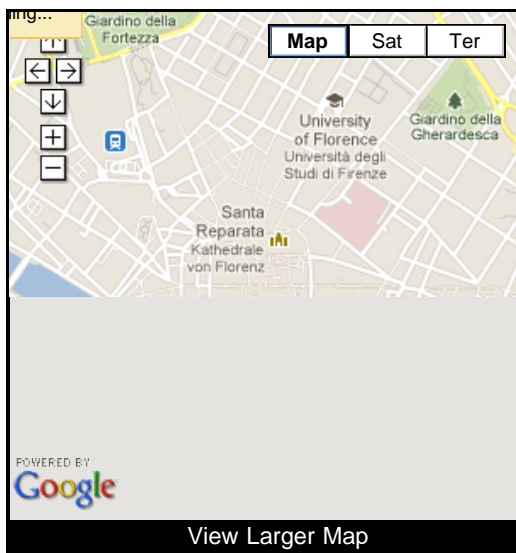
Attendees

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Venues

ACM Multimedia 2010 main program sessions will be held at [Palazzo dei Congressi](#), Piazza Adua 1, downtown Firenze starting from October 25th, 8.30am. The interactive art program exhibition will be held at [Palazzo Medici Riccardi](#), Via Cavour 1, downtown Firenze, starting from October 26th, 6.00pm.

- Conference venue: [Palazzo dei Congressi](#) Piazza Adua 1, Firenze



- Interactive Art exhibit venue: [Palazzo Medici Riccardi](#) , Via Martelli 1, Firenze

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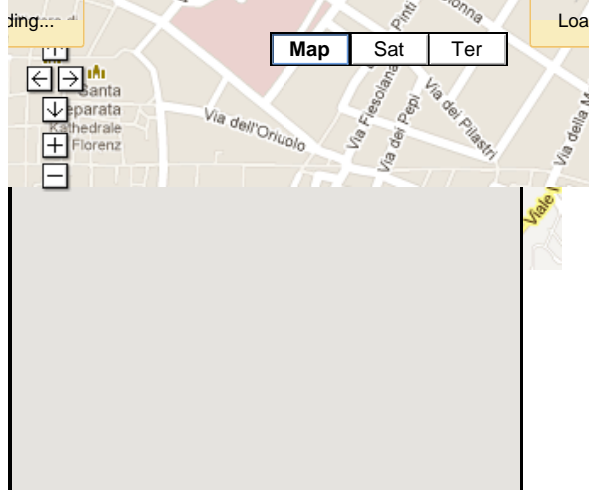
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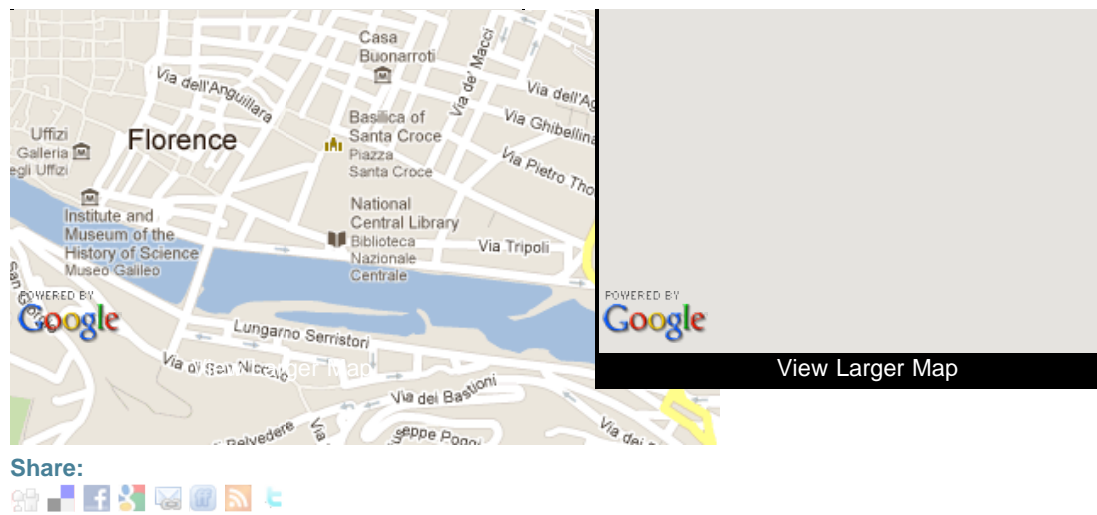
- Gala Dinner Location: [Palazzo Vecchio](#), Salone dei 500, Piazza della Signoria, Firenze



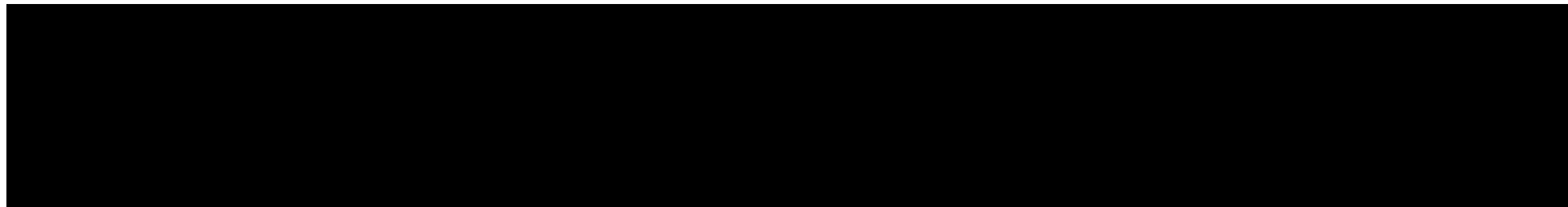
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Instructions for Presenting Authors

Each paper (oral or poster or demo) appearing in the ACM MULTIMEDIA 2010 technical program must be presented by an author at the Conference.

Oral Presentations

Each paper in an oral session is allocated **25 minutes**. This includes time required for introduction of the speaker, as well as time for questions from the audience. Therefore authors are advised to prepare a 20-minute talk and leave some time for questions at the end.

Each lecture room will be equipped with **a computer and a data projector**. Files containing the presentations will be distributed to the computer in each room from a central server.

Authors need to copy their presentations to the central server (located in the Slide Room) **at least 90'** in advance of the session in which their paper will be presented.

The PCs that will be used for presentations are equipped with Microsoft Windows 7, Office 2007, Office 2010 and Acrobat Reader 9.

The formats that are allowed for presentations are Microsoft PowerPoint (.ppt/.pptx) and Portable Document Format (.pdf). In both cases, if the authors have a video or an audio file embedded in the presentation we recommend to use a video and audio codec compatible with Microsoft PowerPoint. We suggest to check in the Microsoft compatibility page ([Compatible multimedia file formats](#)) if the formats are supported.

All presentations will be tested by our technical staff at the Slide Room before the deployment.

Authors needing any special audio or visual equipment must contact the Local Arrangement Chair Stefano Berretti **by October 10, 2010** to indicate their request.

Presenters are requested to:

- be present at the podium (in the correct room) at least 10 minutes before the start of their session. Oral presenters should introduce themselves to the session chair as soon as they arrive.
- let the session chair know of any special assistance during their talk before the session.

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Poster, Demo and Industry Exhibit Presentations

Each paper in a poster session will be provided with a board that can hold a poster **up to 100 cm width x 250 cm length** (3.2 ft x 8.2 ft). Adhesive material will be provided for mounting the posters to the boards. A presenting author is expected to be available in front of the poster for the entire duration of the poster session. There will be no summaries given at the start of the poster or demo sessions, so authors do not need to prepare any slides.

Each paper in a demo session will be provided with a board that can hold a poster **up to 100 cm width x 250 cm length** (3.2 ft x 8.2 ft). Adhesive material will be provided for mounting the posters to the boards. A desk of approx. 80 cm width x 120 cm length will be provided to hold a computer or any other equipment needed for the demo.

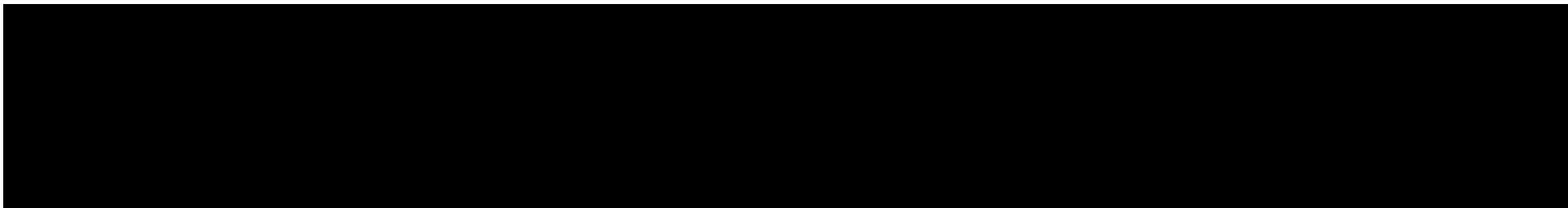
A presenting author is expected to be available at the desk or in front of the poster for the entire duration of the demo/poster session. There will be no summaries given at the start of the poster or demo sessions, so authors do not need to prepare any slide.

Demo authors needing any special audio, visual, or other equipment to be used during their presentation must contact the Local Arrangement Chair Stefano Berretti **by October 10, 2010**.

Presenters are requested to:

- be present at the poster/demo location (in the correct room) at least 15 minutes before the start of their session. Presenters should introduce themselves to the session chair as soon as they arrive, post the poster and setup the equipment for the demo/presentation before the start of their session.
- let the session chair know of any special assistance required for their demo/presentation before the session.

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ACM Multimedia 2010 Best Paper and Demos Awards at Gala Dinner

By WEBCHAIRS | Published: OCTOBER 29, 2010



ACM Multimedia 2010 Gala Dinner was held yesterday in [Salone dei 500](#) at Palazzo Vecchio. It was a wonderful night in a beautiful place. During the dinner were also awarded the authors of the best paper, best student paper and best demos.

Best paper award: Richang Hong, Meng Wang, Mengdi Xu, Shuicheng Yan, Tat-Seng Chua, *Dynamic Captioning: Video Accessibility Enhancement for Hearing Impairment*

Best student paper award: Nikhil Rasiwasia, Jose Costa Pereira, Emanuele Coviello, Gabe Doyle, Gert Lanckriet, Roger Levy, Nuno Vasconcelos, *A New Approach To Cross-Modal Multimedia Retrieval*

Best demo award: Yang Cao, Hai Wang, Changhu Wang, Zhiwei Li, Liqing Zhang, Lei Zhang, *MindFinder: Interactive Sketch-based Image Search on Millions of Images* and Sabine Susstrunk, Clent Fredembach, Daniel Tamburrino, *Automatic Skin Enhancement with Visible and Near-Infrared Image Fusion*

Congratulations to the authors!

See the photos of the dinner on [Flickr](#)

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Salone dei Cinquecento in Palazzo Vecchio

Winners of the best paper award proclamation

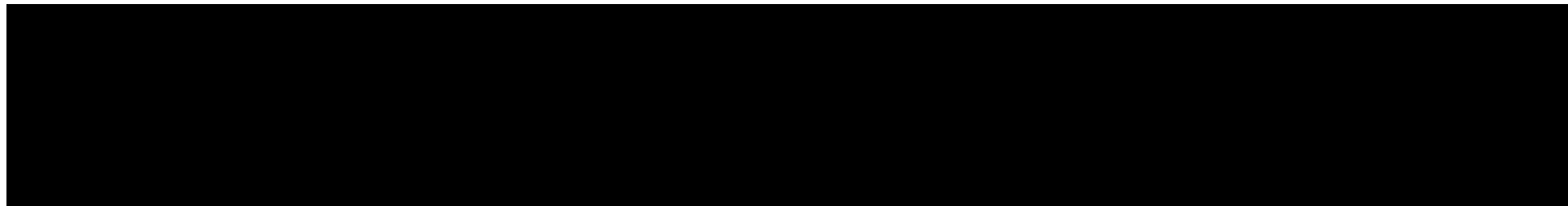
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« Open Source Software Competition Winners!

Conference videos online! »

ACM Multimedia 2010 International Conference, 25-29th October 2010, Firenze, Italy. **Credits:** [MICC, Media Integration and Communication Centre](#), National Center of Excellence, Università di Firenze, Italy.





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Open Source Software Competition Winners!

By WEBCHAIRS | Published: OCTOBER 28, 2010



We are very proud to announce the winners of the ACM Open Source Software Competition 2010

Congratulations!

1. Andrea Vedaldi, Brian Fulkerson, *VLFeat – An open and portable library of computer vision algorithms* – [VLFeat](#)
2. Rob Hess, *An Open-Source SIFT Library* – [Open-Source SIFT](#)
3. Florian Eyben, Martin Woellmer, Bjoern Schuller, *openSMILE – The Munich Versatile and Fast Open-Source Audio Feature Extractor* – [openSMILE](#)

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« SIGMM Phd Award to Effrosyni Kokiopoulou

ACM Multimedia 2010 Best Paper and Demos Awards at Gala Dinner »

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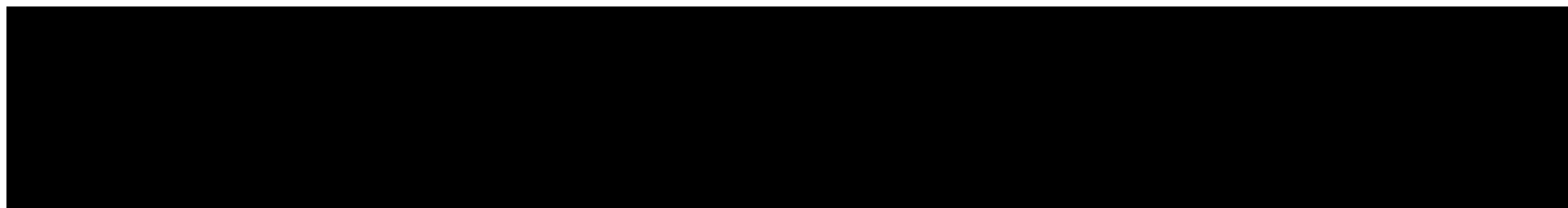


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SIGMM Phd Award to Effrosyni Kokiopoulou

By WEBCHAIRS | Published: OCTOBER 28, 2010



[Effrosyni Kokiopoulou](#), received today the SIGMM Phd Award for his thesis *Geometry-Aware Analysis of High-Dimensional Visual Information Sets*. Congratulations!

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« *Keynote Speech of Mubarak Shah at ACM Multimedia 2010*

Open Source Software Competition Winners! »

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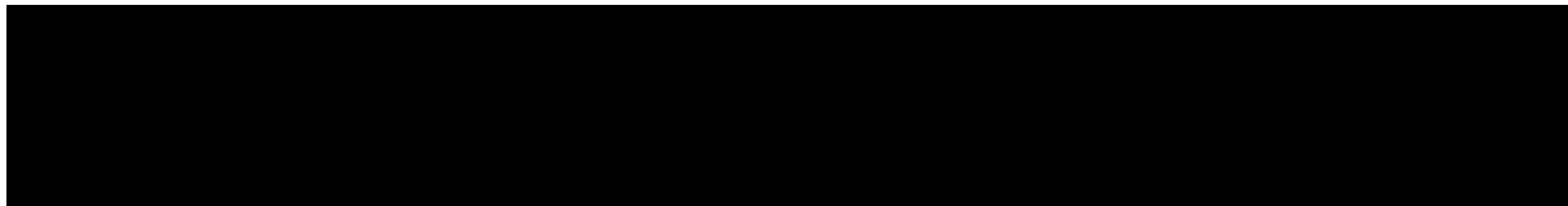


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Keynote Speech of Mubarak Shah at ACM Multimedia 2010

By WEBCHAIRS | Published: OCTOBER 28, 2010



Dr. [Mubarak Shah](#) held today his keynote speech *Visual Crowd Surveillance is Like Hydrodynamics*. Dr. Mubarak showed novel methods for segmentation of flows in crowd videos at a macroscopic level, and to track individuals, detect and localize abnormal behaviors using social force model at a microscopic level.

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« *Multimedia Grand Challenge 2010 Winners!*

SIGMM Phd Award to Effrosyni Kokiopoulou »

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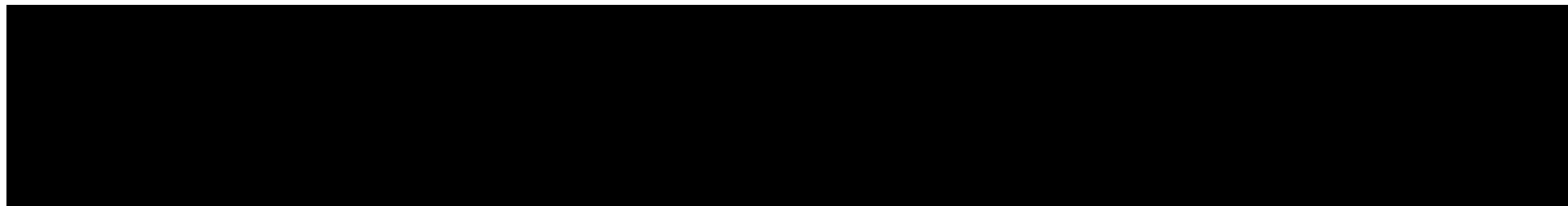


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ACM Multimedia 2010 International Conference, 25-29th October 2010, Firenze, Italy. **Credits:** [MICC, Media Integration and Communication Centre](#), National Center of Excellence, Università di Firenze, Italy.





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Multimedia Grand Challenge 2010 Winners!

By WEBCHAIRS | Published: OCTOBER 27, 2010



With a very interesting and inspiring session ended today the edition of the [ACM Multimedia Multimedia Grand Challenge 2010](#).

And the winners are (presenters in bold):

1. **Jana Machajdik**, Allan Hanbury, Julian Stöttinger: *Understanding Affect in Images*.
2. Wei Song, **Dian Tjondronegoro**, Ivan Himawan: *ROI-based Content Adaptation for Mobile Device Usage of Video Conferencing*.
3. **Julien Law-To**, Gregory Grefenstette, Jean-Luc Gauvain, Guillaume Gravier, Lori Lamel, Julien Despres: *Introducing topic segmentation and segmented-based browsing tools into a content based video retrieval system*.

Congratulations to the winners!

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« *Technical Achievement Award to Ramesh Jain*

Keynote Speech of Mubarak Shah at ACM Multimedia 2010

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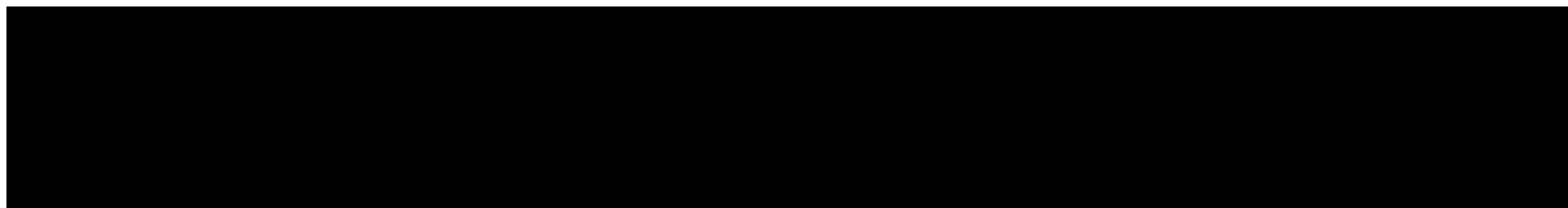


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Technical Achievement Award to Ramesh Jain

By [WEBCHAIRS](#) | Published: OCTOBER 27, 2010



Dr. [Ramesh Jain](#), Discussion Rooms Chair of ACM Multimedia 2010, received today the prestigious ACM Special Interest Group on Multimedia (SIGMM) award for Outstanding Technical Contributions to Multimedia Computing, Communications and Applications. Congratulations!



Ramesh Jain Technical Achievement Award Presentation: Life = Experiences(Events) + Vision

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People attending the Technical Achievement Award Presentation

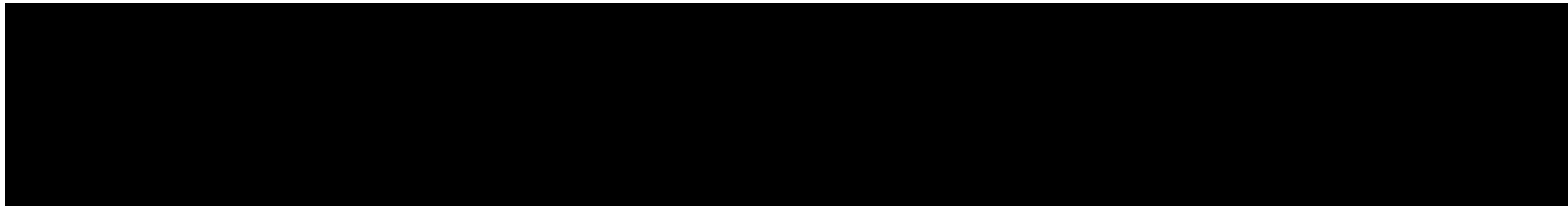
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First Keynote Speech of Duncan Watts at ACM Multimedia 2010

By WEBCHAIRS | Published: OCTOBER 26, 2010



[Duncan Watts](#) (author of [Six Degrees: The Science of a Connected Age](#)) opened the ACM Multimedia 2010 Main Conference Program with his keynote speech *Using the Web to do Social Science*. Duncan described, in particular, several interesting experiments concerning the measurement problems of collective behavior and focused on how the study of social networks can overcome this limitation.



Duncan Watts and Shih-Fu Chang

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Duncan Watts Keynote Speech : Using the Web to do Social Science

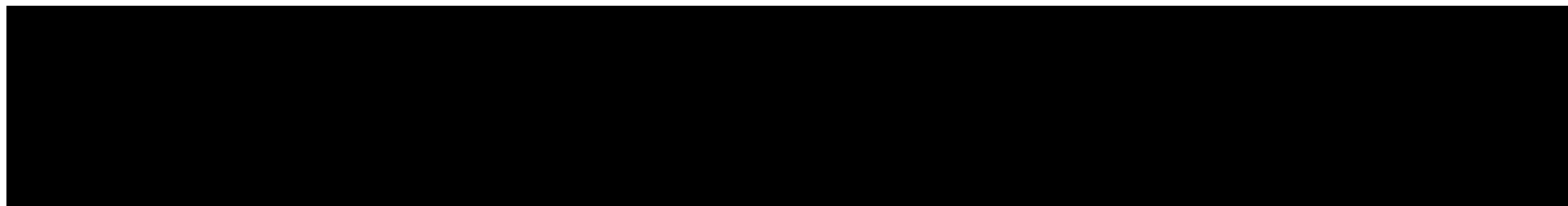
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« ACM Multimedia 2010 volunteers are ready

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ACM Multimedia 2010 volunteers are ready

By WEBCHAIRS | Published: OCTOBER 24, 2010



ACM Multimedia 2010 volunteers have met on Saturday in Palazzo dei Congressi in Florence to plan all the activities to do during the conference.

All these young and talented students also received the ACMMM2010 t-shirt, created by the interaction design lab staff at [MICC](#), in order to be recognizable by all the conference attendees.

If you want to see more pictures of the meeting you can visit Marco Bertini's Flickr [photo stream](#).



Volunteers meeting

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ACM MM 2010 tshirt

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« *ScientificCareers, the job board of Multimedia, is online!* *First Keynote Speech of Duncan Watts at ACM Multimedia 2010* »

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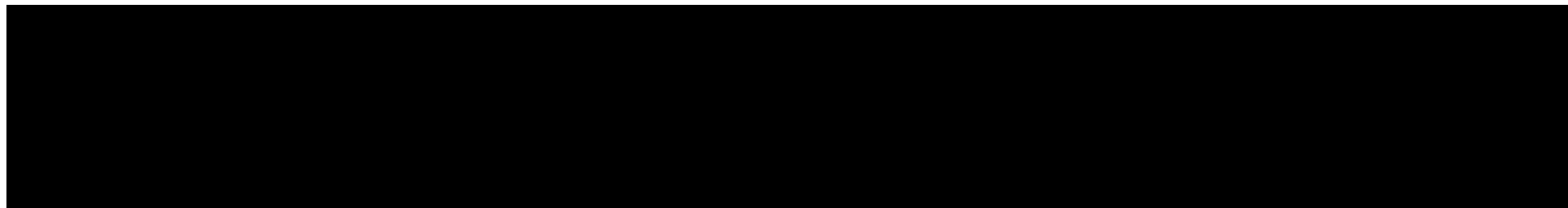
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By WEBCHAIRS | Published: OCTOBER 23, 2010



ScientificCareers is a project dedicated to **job opportunities** for young researchers in the field of **Multimedia**.

The platform aims to promote the connection between companies and research labs, and to stimulate the exchange of expertise between different research teams.

ScientificCareers is a free platform where professionals, industries and academic institutions can post their job requests in order to get in contact with young and talented researchers all over the world.

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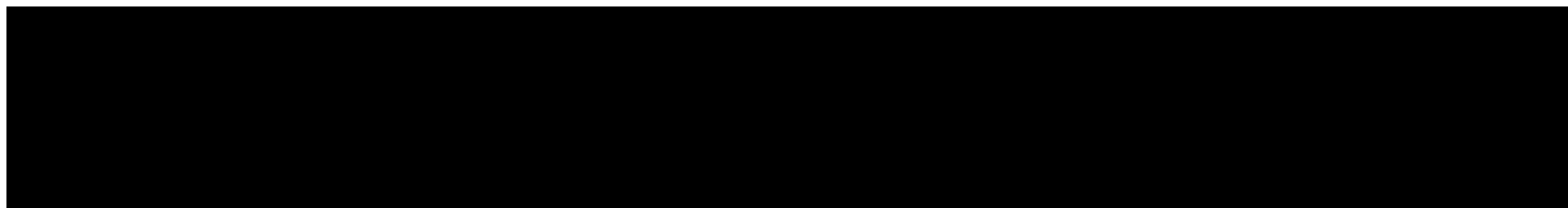


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Welcome to the ACM Multimedia 2010 website

ACM Multimedia 2010 is the worldwide premier multimedia conference and a key event to display scientific achievements and innovative industrial products. The Conference offers to scientists and practitioners in the area of Multimedia **plenary scientific and technical sessions, tutorials, panels** and **discussion meetings** on relevant and challenging questions for the next years horizon of multimedia. The Interactive Art program ACM Multimedia 2010 will provide the opportunity of interaction between artists and computer scientists and investigation on the application of multimedia technologies to art and cultural heritage.

[Please look inside the ACM MULTIMEDIA Website for more information.](#)

The ACM Multimedia 2010 iPhone App is now available!

By WEBCHAIRS | Published: OCTOBER 22, 2010



Now available on App store (for free) the [ACM Multimedia 2010 iPhone App!](#)

This iPhone application allows visitors to view the daily schedules ordered by categories (Main Conference, Workshops, Tutorials and Special Events). [Read More »](#)

Twitter discussion at ACM Multimedia 2010

By WEBCHAIRS | Published: OCTOBER 21, 2010



Please help us improving interaction, interactivity and social exchange of ideas with our [Twitter application](#) while at ACM Multimedia 2010!

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General Co-chair Alberto Del Bimbo interview on Ustation

By WEBCHAIRS | Published: OCTOBER 19, 2010

General Co-chair prof. Alberto Del Bimbo was interviewed by [Ustation](#), the first italian social network dedicated to the

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aggregation of information and content from the university media. You can read the article [here](#) (italian) and listen to the interview [here](#) (english).

ACM Multimedia goes mobile!

By WEBCHAIRS | *Published:* OCTOBER 18, 2010



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Online registrations are closed

By WEBCHAIRS | *Published:* OCTOBER 18, 2010



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ACM Awards Presentations

By WEBCHAIRS | *Published:* OCTOBER 13, 2010



Dear authors, all ACM awards will be presented at the ACM Multimedia 2010 Gala Dinner that will be held in [Salone dei 500](#) at Palazzo Vecchio (Palazzo Vecchio on [Wikipedia](#)) on Thursday, October 28. We invite every contender to be present at the ceremony.

Call for Volunteers now open – EXTENDED

By WEBCHAIRS | *Published:* SEPTEMBER 21, 2010



Students and Phd Students in ICT who are interested to participate to this event can join as Volunteers, giving their support to the success of the event and ensuring that the conference runs smoothly. ACM MULTIMEDIA 2010 is an excellent opportunity for Students in ICT to meet and talk with leading academic and industrial researchers and practitioners in the area of multimedia and meet other people from all over the world. If you want to join visit the [Call](#)

[for Volunteers page](#).

ACM Multimedia 2010 Gala Dinner. No more seats available.

By WEBCHAIRS | *Published:* SEPTEMBER 20, 2010



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Record number of registrations at ACM Multimedia 2010!

By WEBCHAIRS | *Published:* SEPTEMBER 20, 2010



Record breaking number of registrations at ACM Multimedia 2010 so far:

540 registered at [ACM Multimedia 2010 Main Conference](#)

391 registered at [ACM Multimedia 2010 Workshops](#)

12 worldwide renown artists will exhibit at [ACM Multimedia 2010 Art Exhibit](#)

ACM Multimedia 2010 Best Paper and Best Student Paper Awards Nominees

By WEBCHAIRS | *Published:* SEPTEMBER 20, 2010

The following authors have been nominated for the best paper and best student paper awards:

NOMINEES BEST PAPER AWARD ACM MULTIMEDIA 2010	TITLE	TRACK
Subhabrata Bhattacharya, Rahul Sukthankar, Mubarak Shah	A Coherent Framework for Photo-Quality Assessment and Enhancement based on Visual Aesthetics	Applications
Jiajun Bu, Shulong Tan, Chun Chen, Can Wang, Hao Wu, Lijun Zhang, Xiaofei He	Music Recommendation by Unified Hypergraph: Combining Social Information and Music Content	Content
Richang Hong, Meng Wang, Mengdi Xu, Shuicheng Yan, Tat-Seng Chua	Dynamic Captioning: Video Accessibility Enhancement for Hearing Impairment	Human
Simone Milani, Giancarlo Calvagno	A Cognitive Approach for Effective Coding and Transmission of 3D Video	Systems

NOMINEES BEST STUDENT PAPER AWARD ACM MULTIMEDIA 2010	TITLE	TRACK
Prarthana Shrestha, Peter H.N. de With, Hans Weda, Mauro Barbieri, Emile Aarts	Automatic Mashup Generation from Multiple-camera Concert Recordings	Applications
Nikhil Rasiwasia, Jose Costa Pereira, Emanuele Coviello, Gabe Doyle, Gert Lanckriet, Roger Levy, Nuno Vasconcelos	A New Approach To Cross-Modal Multimedia Retrieval	Content
Xintao Hu, Fan Deng, Kaiming Li, Tuo Zhang, Hanbo Chen, Xi Jiang, Dajiang Zhu, Carlos Faraco, Degang Zhang, Arsham Mesbah, Junwei Han, Xian-Sheng Hua, Stephen Miller, Guo Lei, Tianming Liu	Bridging Low-level Features and High-level Semantics via fMRI Brain Imaging for Video Classification	Human
Sayumi Sugimoto, Daisuke Noguchi, Yuichi Bannai, Kenichi Okada	Ink Jet Olfactory Display Enabling Instantaneous Switches of Scents	Systems

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Conference videos online!

By WEBCHAIRS | Published: FEBRUARY 4, 2011

A. Del Bimbo – Opening Shih-Fu Chang – Opening A. Smeulders – Opening D. Watts – Keynotes M. Shah – Keynotes R. Jain – Tech. achiev. award E. Kokiopoulou – SIGMM award S. Bhattacharya – Best papers S. Tan – Best papers R. [...]

ACM Multimedia 2010 Best Paper and Demos Awards at Gala Dinner

By WEBCHAIRS | Published: OCTOBER 29, 2010

ACM Multimedia 2010 Gala Dinner was held yesterday in Salone dei 500 at Palazzo Vecchio. It was a wonderful night in a beautiful place. During the dinner were also awarded the authors of the best paper, best student paper and best demos. Best paper award: Richang Hong, Meng Wang, Mengdi Xu, Shuicheng Yan, Tat-Seng Chua, Dynamic [...]

Open Source Software Competition Winners!

By WEBCHAIRS | Published: OCTOBER 28, 2010

We are very proud to announce the winners of the ACM Open Source Software Competition 2010 Congratulations! Andrea Vedaldi, Brian Fulkerson, VLFeat – An open and portable library of computer vision algorithms – VLFeat Rob Hess, An Open-Source SIFT Library – Open-Source SIFT Florian Eyben, Martin Woellmer, Bjoern Schuller, openSMILE – The Munich Versatile and Fast Open-Source Audio [...]

SIGMM Phd Award to Effrosyni Kokiopoulou

By WEBCHAIRS | Published: OCTOBER 28, 2010

Effrosyni Kokiopoulou, received today the SIGMM Phd Award for his thesis Geometry-Aware Analysis of High-Dimensional Visual Information Sets. Congratulations!

Keynote Speech of Mubarak Shah at ACM Multimedia 2010

By WEBCHAIRS | Published: OCTOBER 28, 2010

Dr. Mubarak Shah held today his keynote speech Visual Crowd Surveillance is Like Hydrodynamics. Dr. Mubarak showed novel

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methods for segmentation of flows in crowd videos at a macroscopic level, and to track individuals, detect and localize abnormal behaviors using social force model at a microscopic level.

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By WEBCHAIRS | *Published:* OCTOBER 27, 2010

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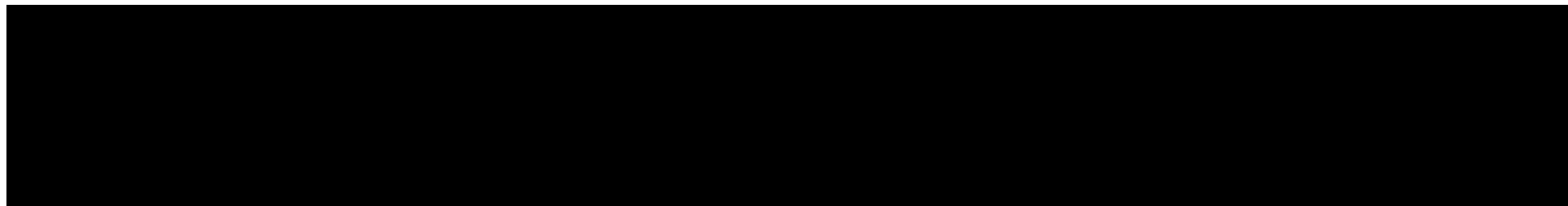


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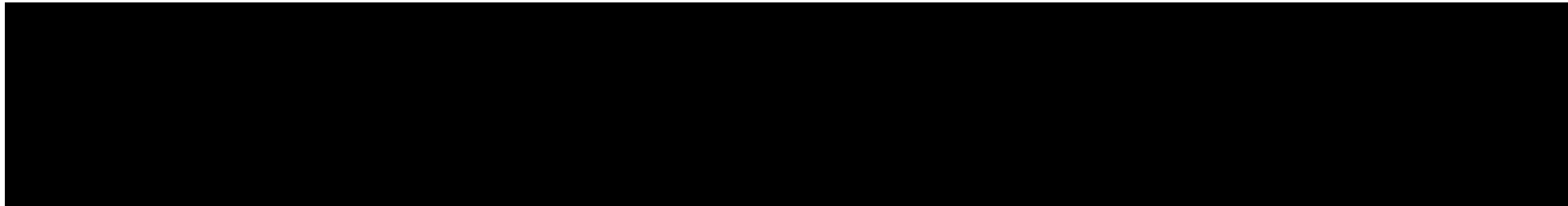
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- [Jian Zhang](#) The Univ. of New South Wales, AU
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- [Andy Gallagher](#) Kodak Research Laboratories, USA

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- [Xian-Sheng Hua](#) Microsoft Research Asia, CN

- [Jiebo Luo](#) Eastman Kodak Company, USA
- [Mohan Kankanhalli](#) National Univ. of Singapore, SG
- [Nuria Oliver](#) Telefonica R&D, ES
- [Yoichi Sato](#) Tokyo Univ., JP
- [Alan Smeaton](#) Dublin City Univ., IE
- [Qi Tian](#) Univ. of Texas at San Antonio, USA
- [Changsheng Xu](#) Chinese Academy of Sciences, CH
- [Zhengyou Zhang](#) Microsoft, USA
- [Zhongfei Zhang](#) State Univ. of New York; USA

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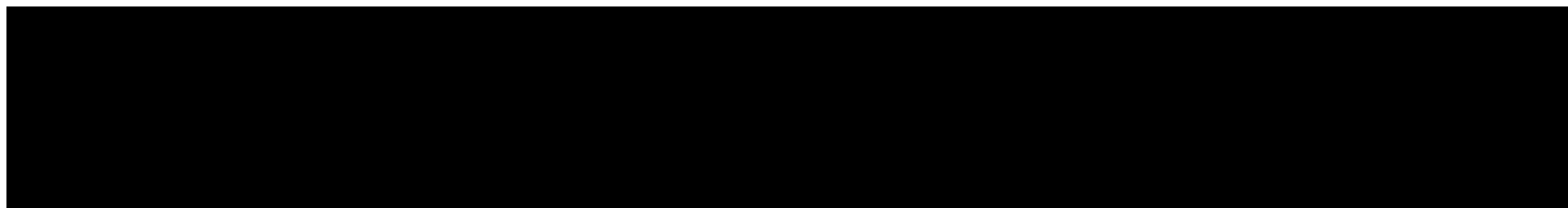


Social



ACM Multimedia 2010 Twitter

ACM Multimedia 2010 International Conference, 25-29th October 2010, Firenze, Italy. **Credits:** [MICC, Media Integration and Communication Centre](#), National Center of Excellence, Università di Firenze, Italy.





ACM Multimedia 2010

International Conference

25-29th October 2010, Firenze, Italy

Attendees

Conference

Program

General | History | People | Program at a glance | Technical Program | Competitions | Interactive Art Exhibit | Tutorials | Workshops
 Registration | Travel | Accommodation | Venues | Instructions for Presenting Authors

You are here: [Home](#) » [Conference](#) » [People](#) » Interactive Art TPC Members

Interactive Art TPC Members

- Art
- Cultural Heritage

- [David Birchfield](#) ASU, USA
- [Stefano Bocconi](#) Free University of Amsterdam, NL
- [Jeffrey Boyd](#) University of Calgary, AU
- [Annet Dekker](#) Virtueel Platform, NL
- [Alberto Del Bimbo](#) Univ. of Florence, I
- [Aleksandra Dulic](#) University of British Columbia, USA
- [Alan Dunning](#) Alberta College of Art + Design, USA
- [Luca Farulli](#) Academy of Fine Arts Venezia, I
- [Sidney Fels](#) UBC, USA
- [Elizabeth Goodman](#) Univ. of California – Berkeley, USA
- [Andrew Gordon](#) Univ. of Southern California, USA
- [Lars Holmquist](#) Swedish Institute of Computer Science, SE
- [Aisling Kelliher](#) Arizona State University, USA
- [Andruid Kerne](#) Texas A&M Univ., USA
- [Peter Knees](#) Johannes Kepler Univ. Linz, AT
- [Hiroki Kobayashi](#) Univ. of Tokyo, JP
- [Karen Johanne Kortbek](#) Aarhus Univ., DK
- [Akihiro Kubota](#) Tama art Univ., DK
- [Carol Lafayette](#) Texas A&M Univ., USA
- [George Legrady](#) UC Santa Barbara, USA
- [Jason Lewis](#) Concordia University, USA
- [Felipe Londono](#) Univ. de Caldas, CO
- [Michael Lyons](#) Ritsumeikan University, JP
- [Yucef Merhi](#) Universidad de Los Andes, CO
- [Ann Morrison](#) Helsinki Inst. for Information Tech., FI
- [Vicki Moulder](#) Simon Fraser Univ., USA
- [Frank Nack](#) Univ. of Amsterdam, NL
- [Anne Nigten](#) Patchingzone, NL
- [Philippe Pasquier](#) Simon Fraser Univ., USA
- [Daniela Alina Plewe](#) National Univ. of Singapore, SG
- [Tim Pohle](#) Johannes Kepler Univ. Linz, AT
- [Jürgen Scheible](#) Univ. of Art and Design Helsinki, FI
- [Patrick Schmitz](#) University of California, USA
- [Andrew Senior](#) IBM Research, USA
- [David Shamma](#) Yahoo! Research, USA
- [Geoffrey Shea](#) Ontario College of Art & Design, USA
- [Renata Sheppard](#) Univ. of Illinois at Urbana-Champaign, USA
- [Arnold Smeulders](#) Univ. of Amsterdam, NL
- [Jack Stenner](#) University of Florida, USA
- [Noah Wardrip-Fruin](#) UC Santa Cruz, USA

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Social

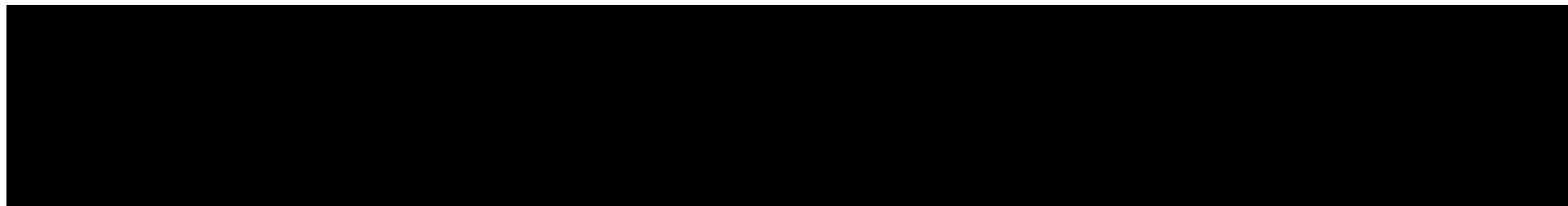


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ACM Multimedia 2010 International Conference

25-29th October 2010, Firenze, Italy



Conference

General | History | People | Program at a glance | Technical Program | Competitions | Interactive Art Exhibit | Tutorials | Workshops
Registration | Travel | Accommodation | Venues | Instructions for Presenting Authors

Program

Attendees

You are here: [Home](#) » Program

Program

- [Program at glance](#)
- [Technical Program](#)
- [Competitions](#)
- [Demos and Exhibits](#)
- [Interactive Art Exhibit](#)
- [Tutorials](#)
- [Workshops](#)

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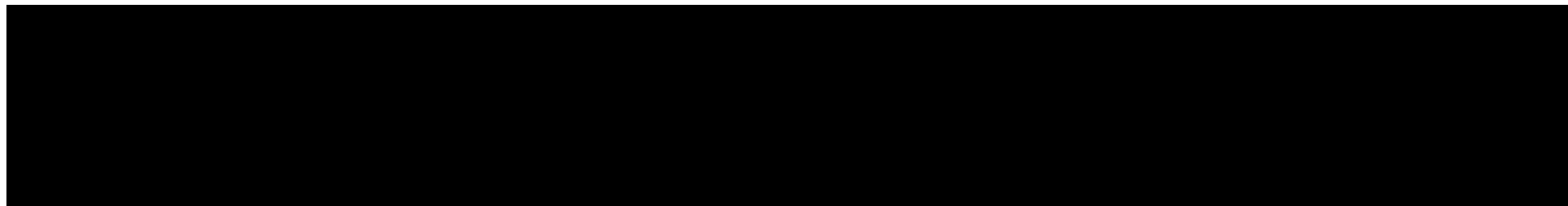


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Program

Attendees

You are here: [Home](#) » [Program](#) » [Technical Program](#) » Technical Program Sessions

Technical Program Sessions

Tuesday, October 26
 morning

PLENARY PL1

Chairs:
 Alberto Del Bimbo, University of Firenze, I
 Shih-Fu Chang, Columbia University, USA
 Arnold Smeulders, University of Amsterdam, NL

Using the Web to do Social Science

Duncan Watts, Yahoo! Research
 Chair:
 Shih-Fu Chang, Columbia University, USA

ORAL SESSION

FULL F1

Content
Automatic image tagging
 Chair:
 Yong Rui, Microsoft Research, USA

Leveraging Loosely-Tagged Images and Inter-Object Correlations for Tag Recommendation

Yi Shen, University of North Carolina at Charlotte
 Jianping Fan, University of North Carolina at Charlotte

Multi-label Boosting for Image Annotation by Structural Grouping Sparsity

Fei Wu, Zhejiang University
 Yahong Han, Zhejiang University
 Qi Tian, University of Texas at San Antonio
 Yueting Zhuang, Zhejiang University

Unified Tag Analysis With Multi-Edge Graph

Dong Liu, Harbin Institute of Technology
 Shuicheng Yan, National University of Singapore
 Yong Rui, Microsoft China R&D Group
 Hong-Jiang Zhang, Microsoft Advanced Technology Center

Efficient Large-Scale Image Annotation by Probabilistic Collaborative Multi-Label Propagation

Xiangyu Chen, National University of Singapore

Sponsors



Social



ACM Multimedia 2010 Twitter

Yadong Mu, National University of Singapore
Shuicheng Yan, National University of Singapore
Tat-Seng Chua, National University of Singapore

ORAL SESSION

FULL F2

Applications / Human-centered multimedia

User-adapted media access

Chair:

Ralf Steinmetz, University of Darmstadt, D

Sketch-Based 3D Model Retrieval using Diffusion Tensor Fields of Suggestive Contours

Sang Yoon, TU Darmstadt

Maximilian Scherer, TU Darmstadt

Tobias Schreck, TU Darmstadt

Arjan Kuijper, Fraunhofer IGD

Crowdsourced Automatic Zoom and Scroll for Video Retargeting

Axel Carlier, National University of Singapore

Vincent Charvillat, University of Toulouse

Wei Tsang Ooi, National University of Singapore

Romulus Grigoras, University of Toulouse

Geraldine Morin, University of Toulouse

Personalized Photograph Ranking and Selection System

Che-Hua Yeh, National Taiwan University

Yuan-Chen Ho, National Taiwan University

Brian Barsky, University of California, Berkeley

Ming Ouhyoung, National Taiwan University

VIDEO SESSION

VIDEO VID1

Chairs:

Shin'ichi Satoh, National Inst. Inform. Japan, J

Jenny Benois Pineau, University of Bordeaux, F

Acqua Vellutata Sospesa

Laurel Johannesson, University of Calgary

The IMMED Project: Wearable Video Monitoring of People with Age Dementia

Rémi Mégret, IMS, UMR5218 CNRS, University of Bordeaux

Vladislavs Dovgalecs, IMS, UMR5218 CNRS, University of Bordeaux

Hazem Wannous, IMS, UMR5218 CNRS, University of Bordeaux

Svebor Karaman, LaBRI, UMR 5800 CNRS, University of Bordeaux

Jenny Benois-Pineau, LaBRI, UMR 5800 CNRS, University of Bordeaux

Elie El Khoury, IRIT, UMR 5505 CNRS, University Paul Sabatier

Julien Pinquier, IRIT, UMR 5505 CNRS, University Paul Sabatier

Philippe Joly, IRIT, UMR 5505 CNRS, University Paul Sabatier

Régine André-Obrecht, IRIT, UMR 5505 CNRS, University Paul Sabatier

Yann Gaestel, ISPED, INSERM U897, Université Bordeaux 2, CHU de Bordeaux

Jean-François Dartigues, ISPED, INSERM U897, Université Bordeaux 2, CHU de Bordeaux

A Multimodal Virtual Environment for Interacting with 3D Deformable Models

Ziying Tang, University of Texas at Dallas

Anant Patel, University of Texas at Dallas

Xiaohu Guo, University of Texas at Dallas

Balakrishnan Prabhakaran, University of Texas at Dallas

Real-Time Detection of Unusual Regions in Image Streams

Rene Schuster, Joannesum Research

Roland Mörzinger, Joannesum Research

Werner Haas, Joannesum Research

Helmut Grabner, ETH Zurich

Luc Van Gool, ETH Zurich

Video Exploration: From Multimedia Content Analysis to Interactive Visualization

Marie-luce Viaud, INA

Olivier Buisson, INA

Agnes Saulnier, INA

Clement Guenais, INA

A 3D Data Intensive Tele-immersive Grid

Benjamin PETIT, INRIA – LIG
Thomas Dupeux, INRIA – LIG
Benoit Bossavit, INRIA – LABRI
Joeffrey Legaux, Université d'Orléans
Bruno Raffin, INRIA – LIG
Emmanuel Melin, Université d'Orléans
Jean-Sébastien Franco, INRIA – Labri
Ingo Assenmacher, INRIA – LIG
Edmond Boyer, INRIA – LJK

Real-Time Soccer Player Tracking Method by Utilizing Shadow Regions

Nozomu Kasuya, University of Tsukuba
Itaru Kitahara, University of Tsukuba
Yoshinari Kameda, University of Tsukuba
Yuichi Ohta, University of Tsukuba

The MediaMill Search Engine Video

Cees Snoek, University of Amsterdam

ORAL SESSION

BRAVE NEW IDEAS BNI1

Chair:

Nozha Boujemaa, INRIA Roquencourt, F

The Wisdom of Social Multimedia: Using Flickr For Prediction and Forecast

Xin Jin, University of Illinois at Urbana-Champaign
Andrew Gallagher, Kodak Research Laboratories
Liangliang Cao, University of Illinois at Urbana-Champaign
Jiebo Luo, Kodak Research Laboratories
Jiawei Han, University of Illinois at Urbana-Champaign

Multimodal Location Estimation

Gerald Friedland, International Computer Science Insitute
Oriol Vinyals, International Computer Science Insitute

Video Genetics: A Case Study from YouTube

John Kender, Columbia University
Matthew Hill, IBM Research
Apostol Natsev, IBM Research
John Smith, IBM Research
Lexing Xie, IBM Research

Content Without Context is Meaningless

Ramesh Jain, University of California, Irvine
Pinaki Sinha, University of California, Irvine

POSTER SESSION

SHORT S1

Applications / Human-centered multimedia

Chair:

Marcel Worring, University of Amsterdam, NL

Movie2Comics: A Feast of Multimedia Artwork

Richang Hong, School of Computing, National University of Singapore
Xiao-Tong Yuan, Dept. of ECE, National University of Singapore
Mengdi Xu, Dept. of ECE, National University of Singapore
Meng Wang, Akiira Media Systems Inc.
Shuicheng Yan, Dept. of ECE, National University of Singapore
Tat-Seng Chua, School of Computing, National University of Singapore

NudgeCam: Toward targeted, higher quality media capture

Scott Carter, FX Palo Alto Laboratory
John Adcock, FX Palo Alto Laboratory
John Doherty, FX Palo Alto Laboratory
Stacy Branham, Virginia Tech

Tagging Tags

Kuiyuan Yang, University of Science and Technology of China
Xian-Sheng Hua, Microsoft Research Asia
Meng Wang, AKiIRA Media Systems Inc
Hong-Jiang Zhang, Microsoft Adv. Tech. Center

i-m-Space: Interactive Multimedia-Enhanced Space for Rehabilitation of Breast Cancer Patients

Ju-Chun Ko, Graduate Institute of Networking and Multimedia, National Taiwan University
Wei-Han Chen, Graduate Institute of Networking and Multimedia, National Taiwan University
Meng-Chieh Yu, Graduate Institute of Networking and Multimedia, National Taiwan University
Han-Hung Lin, Graduate Institute of Networking and Multimedia, National Taiwan University
Jin-Yao Lin, Graduate Institute of Networking and Multimedia, National Taiwan University
Szu-Wei Wu, Department of Computer Science and Information Engineering, National Taiwan University
Yi-Yu Chung, Department of Computer Science and Information Engineering, National Taiwan University
I-Ling Hu, Department of Computer Science and Information Engineering, National Taiwan University
Wei-Ting Peng, Graduate Institute of Networking and Multimedia, National Taiwan University
Shih-Yao Lin, Graduate Institute of Networking and Multimedia, National Taiwan University
Chia Han Chang, Graduate Institute of Networking and Multimedia, National Taiwan University
Pei-Hsuan Chou, Graduate Institute of Networking and Multimedia, National Taiwan University
King-Jen Chang, College of Medical, National Taiwan University
Mei-Lan Chang, Foundation of Breast Cancer Prevention and Treatment, Taiwan
Sue-huei Chen, Department of Psychology, National Taiwan University
Jin-Shing Chen, College of Medical, National Taiwan University
Ming-Sui Lee, Graduate Institute of Networking and Multimedia, National Taiwan University
Mike Y. Chen, Graduate Institute of Networking and Multimedia, National Taiwan University
Yi-Ping Hung, Graduate Institute of Networking and Multimedia, National Taiwan University

A Music Search Engine for Therapeutic Gait Training

Zhonghua Li, National University of Singapore
Qiaoliang Xiang, National University of Singapore
Jason Hockman, McGill University
Jianqing Yang, National University of Singapore
Yu Yi, National University of Singapore
Ichiro Fujinaga, McGill University
Ye Wang, National University of Singapore

Real-World Trajectory Extraction for Attack Pattern Analysis in Soccer Video

Zhenxing Niu, Xidian University
Qi Tian, University of Texas at San Antonio
Xinbo Gao, Xidian University

Tag Transformer

Yicheng Song, Institute of Computing Technology, Chinese Academy of Science
Juan Cao, Institute of Computing Technology, Chinese Academy of Science
Zhineng Chen, Institute of Computing Technology, Chinese Academy of Science
Yongdong Zhang, Institute of Computing Technology, Chinese Academy of Science
Jintao Li, Institute of Computing Technology, Chinese Academy of Science

Gaze Awareness and Interaction Support in Presentations

Kar-Han Tan, Hewlett-Packard Laboratories
Dan Gelb, Hewlett-Packard Laboratories
Ramin Samadani, Hewlett-Packard Laboratories
Ian Robinson, Hewlett-Packard Laboratories
Bruce Culbertson, Hewlett-Packard Laboratories
John Apostolopoulos, Hewlett-Packard Laboratories

Digesting Omni-video along Routes for Navigation

Hongyuan Cai, Indiana University Purdue University Indianapolis
Jiang Yu Zheng, Indiana University Purdue University Indianapolis

Building Book Inventories using Smartphones

David Chen, Stanford University
Sam Tsai, Stanford University
Cheng-Hsin Hsu, Deutsche Telekom R&D Laboratories USA
Kyu-Han Kim, Deutsche Telekom R&D Laboratories USA
Jatinder Singh, Deutsche Telekom R&D Laboratories USA
Bernd Girod, Stanford University

Templated Recursive Image Composition

C. Atkins, Hewlett-Packard Laboratories
Nicholas Lyons, Hewlett-Packard Laboratories
Xuemei Zhang, Hewlett-Packard Laboratories
Daniel Tretter, Hewlett-Packard Laboratories

Putting the pieces together: Multimodal Analysis of Social Attention in Meetings

Ramanathan Subramanian, University of Trento, Italy
Jacopo Staiano, University of Trento, Italy
Kyriaki Kalimeri, Fondazione Bruno Kessler
Nicu Sebe, University of Trento, Italy
Fabio Pianesi, Fondazione Bruno Kessler

AIR Conferencing: Accelerated Instant Replay for In-Meeting Multimodal Review

Kori Inkpen, Microsoft Research
Rajesh Hegde, Microsoft Research
Sasa Junuzovic, Microsoft Research
Christopher Brooks, University of Saskatchewan
John Tang, Microsoft Research
Zhengyou Zhang, Microsoft Research

Making Computers Look the Way We Look: Exploiting Visual Attention for Image Understanding

Harish Katti, National University of Singapore
Ramanathan Subramanian, University of Trento
Mohan Kankanhalli, National University of Singapore
Nicu Sebe, University of Trento
Tat-Seng Chua, National University of Singapore
Kalpathi Ramakrishnan, Indian Institute of Science

MOGCLASS: A Collaborative System of Mobile Devices for Classroom Music Education

Yinsheng Zhou, National University of Singapore
Graham Percival, National University of Singapore
Xinxi Wang, National University of Singapore
Ye Wang, National University of Singapore
Shengdong Zhao, National University of Singapore

Adaptive Combination of Tag and Link-based User Similarity in Flickr

Hai Phan, Konkuk University
Thong Hoang, Konkuk University
Hyoseop Shin, Konkuk University

Multi-Display Map Touring with Tangible Widget

Marco Piovesana, Dept. of Math and Computer Science, University of Udine
Ying-Jui Chen, Graduate Institute of Networking and Multimedia, National Taiwan University
Neng-Hao Yu, Graduate Institute of Networking and Multimedia, National Taiwan University
Hsiang-Tao Wu, Graduate Institute of Networking and Multimedia, National Taiwan University
Li-Wei Chan, Graduate Institute of Networking and Multimedia, National Taiwan University
Yi-Ping Hung, Graduate Institute of Networking and Multimedia, National Taiwan University

Stray: A New Multimedia Music Composition using the Andanteophone

Ryan Janzen, University of Toronto
Steve Mann, University of Toronto

A User Study of Visual versus Sonically-enhanced Interfaces for Use while Walking

Yaohua Yu, Dalian Maritime University
Zhengjie Liu, Dalian Maritime University

Fast Image Rearrangement via Multi-Scale Patch Copying

Jiayao Hu, University of Science and Technology of China
Shifeng Chen, Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences
Jianzhuang Liu, The Chinese University of Hong Kong
Xiaoou Tang, The Chinese University of Hong Kong

Learning Parts-based Representation for Face Transition

Xiong Li, Shanghai Jiao Tong University
Liwei Wang, Shanghai Jiao Tong University
Huanxi Liu, Shanghai Jiao Tong University
Yuncai Liu, Shanghai Jiao Tong University

Gesture and Touch Controlled Video Player Interface for Mobile Devices

Shelley Buchinger, University of Vienna
Francesca De Simone, Ecole Polytechnique Fédérale de Lausanne
Ewald Hotop, University of Vienna
Helmut Hlavacs, University of Vienna
Touradj Ebrahimi, Ecole Polytechnique Fédérale de Lausanne

Eyes Do Not Lie: Spontaneous versus Posed Smiles
Hamdi Dibeklioglu, University of Amsterdam
Roberto Valenti, University of Amsterdam
Albert Salah, University of Amsterdam
Theo Gevers, University of Amsterdam

DEMO SESSION

DEMO D1

Chair:

Daniel Gatica-Perez, IDIAP Research Institute, CH

Crowdsourcing Rock N' Roll Multimedia Retrieval
Cees Snoek, University of Amsterdam
Bauke Freiburg, Video Dock
Johan Oomen, Netherlands Institute for Sound and Vision
Roeland Ordelman, University of Twente

Media Distribution over 2D Communication Sheet
Youti Kado, National Institute of Information and Communications Technology
Bing Zhang, National Institute of Information and Communications Technology
Jiang Yu Zheng, Indiana University Purdue University Indianapolis

Melog

Hongzhi Li, Zhejiang University
Xian-Sheng Hua, Microsoft Research Asia
Xijia Liu, Tsinghua University

Color and Luminance Compensation for Mobile Panorama Construction
Yingen Xiong, Nokia Research Center
Kari Pulli, Nokia Research Center

iPhotobook: Creating Photo Books on Mobile Devices

Jun Xiao, HP Labs
Nic Lyons, HP Labs
Brian Atkins, HP Labs
Yuli Gao, HP Labs
Hui Chao, HP Labs
Xuemei Zhang, HP labs

Blog2Book – Transforming Blogs into Photo Books Employing Aesthetic Principles

Philipp Sandhaus, OFFIS – Institute for Information Technology
Mohammad Rabbath, OFFIS – Institute for Information Technology
Ilja Erbis, University of Oldenburg
Susanne Boll, University of Oldenburg

TagCaptcha: Annotating images with CAPTCHAs

Donn Morrison, Université de Genève
Stéphane Marchand-Maillet, Université de Genève
Eric Bruno, Université de Genève

afternoon

PANEL PA1

The Use of Non-conventional Means for Content Media Analysis and Understanding

Chairs:

Ed Chang, Google Corp., CN
Tat-Seng Chua, National University of Singapore, SG

ORAL SESSION

FULL F3

Content

Classification of content elements

Chair:
Rita Cucchiara, University of Modena, I

Affective Image Classification using Features Inspired by Psychology and Art Theory
Jana Machajdik, Vienna University of Technology
Allan Hanbury, Information Retrieval Facility

CO3 for Ultra-fast and Accurate Interactive Segmentation
Yibiao Zhao, Beijing Jiaotong University; Lotus Hill Research Institute
Song-Chun Zhu, Lotus Hill Research Institute, University of California Los Angeles
Siwei Luo, Beijing Jiaotong University, University of California Los Angeles

A Generic Framework for Event Detection in Various Video Domains
Tianzhu Zhang, Institute of Automation, Chinese Academy of Sciences
Changsheng Xu, Institute of Automation, Chinese Academy of Sciences
Guangyu Zhu, National University of Singapore
Si Liu, Institute of Automation, Chinese Academy of Sciences
Hanqing Lu, Institute of Automation, Chinese Academy of Sciences

Image Segmentation with Patch-Pair Density Priors
Xiaobai Liu, Huazhong University of Science and Technology
Jiashi Feng, National University of Singapore
Shuicheng Yan, National University of Singapore
Hai Jin, Huazhong University of Science and Technology

ORAL SESSION

FULL F4

Applications
Applications of geo-tagging
Session Chair
Touradj Ebrahimi, EPFL, CH

W2Go: A Travel Guidance System by Automatic Landmark Ranking
Yue Gao, Tsinghua University
Jinhui Tang, National University of Singapore
Richang Hong, National University of Singapore
Qionghai Dai, Tsinghua University
Tat-Seng Chua, National University of Singapore
Ramesh Jain, University of California, Irvine

Mining People's Trips from Large Scale Geo-tagged Photos
Yuki Arase, Microsoft Research Asia
Xing Xie, Microsoft Research Asia
Takahiro Hara, Osaka University
Shojiro Nishio, Osaka University

Photo2Trip: Generating Travel Routes from Geo-Tagged Photos for Trip Planning
Xin Lu, Tianjin University
Changhu Wang, Microsoft Research Asia
Jiang-Ming Yang, Microsoft Corporation
Yanwei Pang, Tianjin University
Lei Zhang, Microsoft Research Asia

Retrieving Landmark and Non-Landmark Images from Community Photo Collections
Yannis Avrithis, National Technical University of Athens
Yannis Kalantidis, National Technical University of Athens
Giorgos Toliás, National Technical University of Athens
Evangelos Spyrou, National Technical University of Athens

DOCTORAL SYMPOSIUM DS1

Chairs:
Susanne Boll, University of Oldenburg, D
Carlo Colombo, University of Firenze, I

Free-hand Sketch Based Image and Video Retrieval
Rui Hu, University of Surrey

Automatic and Manual Processes in End-User Multimedia Authoring Tools: Where is the Balance?
Rodrigo Laiola Guimarães, CWI: Centrum Wiskunde & Informatica

Analysis and Classification of Conversational Interactions
Anna Pesarin, Dipartimento di Informatica, University of Verona

FlashBoost: Design of Flash Memory Buffer Cache Mechanism for Video-on-Demand
Moonkyung Ryu, Georgia Institute of Technology

Interoperable and Unified Multimedia Retrieval in Distributed and Heterogeneous Environments
Florian Stegmaier, University of Passau

POSTER SESSION

SHORT S2

Content / Systems

Chair:

Zhengyou Zhang, Microsoft, USA

Integrating Web 2.0 Resources By Wikipedia

Chen Liu, NUS

Bing Cui, Peking University

Anthony K.H. Tung, NUS

Vicept: Link Visual Features to Concepts for Large-scale Image Understanding

Zhipeng Wu, Graduate University, Chinese Academy of Sciences

Shuqiang Jiang, Key Lab of Intell. Info. Process., Inst. of Comput. Tech., Chinese Academy of Sciences

Liang Li, Key Lab of Intell. Info. Process., Inst. of Comput. Tech., Chinese Academy of Sciences

Peng Cui, Key Lab of Intell. Info. Process., Inst. of Comput. Tech., Chinese Academy of Sciences

Qingming Huang, Graduate University, Chinese Academy of Sciences

Wen Gao, Institute for Digital Media, Peking University

Analyzing and Predicting Sentiment of Images on the Social Web

Stefan Siersdorfer, Universität Hannover

Jonathon Hare, University of Southampton

Enrico Minack, Universität Hannover

Fan Deng, Universität Hannover

Landmark Image Classification Using 3D Point Clouds

xian xiao, National Lab of Pattern Recognition, Institute of Automation, CAS

changsheng xu, National Lab of Pattern Recognition, Institute of Automation, CAS

jinqiao wang, National Lab of Pattern Recognition, Institute of Automation, CAS

Portfolio Theory of Multimedia Fusion

Xiangyu Wang, National University of Singapore

Mohan Kankanhalli, National University of Singapore

Exploiting Noisy Visual Concept Detection to Improve Spoken Content based Video Retrieval

Stevan Rudinac, Multimedia Information Retrieval Lab, Delft University of Technology

Martha Larson, Multimedia Information Retrieval Lab, Delft University of Technology

Alan Hanjalic, Multimedia Information Retrieval Lab, Delft University of Technology

End-to-end Stochastic Scheduling of Scalable Video OverTime-Varying Channels

Nesrine changuel, Alcatel Lucent Bell Labs France

Nicholas Mastronarde, University of California Los Angeles (UCLA)

Mihaela Van derSchaar, University of California Los Angeles (UCLA)

Bessem Sayadi, Alcatel lucent Bell Labs France

Michel Kieffer, LTCI, CNRS-Télécom ParisTech

Context Dependent SVMs for Interconnected Image Network Annotation

Hichem Sahbi, CNRS TELECOM ParisTech

Xi Li, CNRS TELECOM ParisTech

A Novel Video Hash Algorithm

Li Weng, Katholieke Universiteit Leuven

Bart Preneel, Katholieke Universiteit Leuven

Age Classification for Pose Variant and Occluded Faces

Wei-Ta Chu, National Chung Cheng University

Wen-Long Liu, National Chung Cheng University

Jen-Yu Yu, Industrial Technology Research Inst.

Movie Genre Classification via Scene Categorization

Howard Zhou, Georgia Institute of Technology

Tucker Hermans, Georgia Institute of Technology
Asmita Karandikar, Georgia Institute of Technology
James Rehg, Georgia Institute of Technology

Unsupervised Summarization of Rushes Videos
Yang Liu, The Hong Kong Polytechnic University
Feng Zhou, Carnegie Mellon University
Wei Liu, Carnegie Mellon University
Fernando De la Torre, Carnegie Mellon University
Yan Liu, The Hong Kong Polytechnic University

Negotiating Multimedia Advertising with Attention Owners
Yue Zhang, cfactor Works
Nadeem Jamali, University of Saskatchewan

ReDi: An Interactive Virtual Display System for Ubiquitous Devices
Wen Sun, University of Science and Technology of China
Yan Lu, Microsoft Research Asia
Shipeng Li, Microsoft Research Asia

A Proxy-Based Mobile Web Browser
Huifeng Shen, Microsoft Research Asia
Zhaotai Pan, University of Science & Technology of China
Haicheng Sun, Microsoft Research Asia
Yan Lu, Microsoft Research Asia
Shipeng Li, Microsoft Research Asia

Optimal Collusion Attack for Digital Fingerprinting
Hui Feng, Huazhong University of Science and Technology
Hefei Ling, Huazhong University of Science and Technology
Fuhao Zou, Huazhong University of Science and Technology
Weiqi Yan, Queen's University Belfast
Zhengding Lu, Huazhong University of Science and Technology

Novel Framework for Single/Multi-Frame Super-Resolution using Sequential Monte Carlo Method
Toshie Misu, NHK (Japan Broadcasting Corporation)
Yasutaka Matsuo, NHK (Japan Broadcasting Corporation)
Shinichi Sakaida, NHK (Japan Broadcasting Corporation)
Yoshiaki Shishikui, NHK (Japan Broadcasting Corporation)

Similarity Content Search in Content Centric Networks
Petros Daras, Centre for Research and Technology Hellas
Theodoros Semertzidis, Centre for Research and Technology Hellas
Lambros Makris, Centre for Research and Technology Hellas
Michael Strintzis, Centre for Research and Technology Hellas

Accelerated IPTV Channel Change with Transcoded Unicast Bursting
Zhi Li, Stanford University
Ali Begen, Cisco Systems Inc.
Xiaoqing Zhu, Cisco Systems Inc.
Bernd Girod, Stanford University

QoE-based Rate Adaptation Scheme Selection for Resource-constrained Wireless Video Transmission
Srisakul Thakolsri, Docomo Euro-Labs
Wolfgang Kellerer, Docomo Euro-Labs
Eckehard Steinbach, Technische Universitaet Muenchen

Precise Indoor Localization Using Smart Phones
Eladio Martin, University of California, Berkeley
Oriol Vinyals, International Computer Science Institute
Gerald Friedland, International Computer Science Institute
Ruzena Bajcsy, University of California, Berkeley

Trading Bandwidth for Playback Lag: Can Active Peers Help?
Dongbo Huang, Fudan University
Jin Zhao, Fudan University
Xin Wang, Fudan University

3D Video Transcoding for Virtual Views

Shujie Liu, State University of New York at Buffalo
Chang Wen Chen, State University of New York at Buffalo

Pull-Patching: A Combination of Multicast and Adaptive Segmented HTTP Streaming

Espen Jacobsen, University of Oslo / Simula
Carsten Griwodz, University of Oslo / Simula
Pål Halvorsen, University of Oslo / Simula

Beyond GPS: Determining the Camera Viewing Direction of A Geotagged Image

Minwoo Park, The Pennsylvania State University
Jiebo Luo, Eastman KODAK
Robert Collins, The Pennsylvania State University
Yanxi Liu, The Pennsylvania State University

DEMO SESSION

DEMO D2

Chair:

James Lynch, Navteq Corp., USA

A Technical Demonstration of Large-Scale Image Object Retrieval by Efficient Query Evaluation and Effective Auxiliary Visual Feature Discover

Yin-Hsi Kuo, National Taiwan University
Yi-Lun Wu, National Taiwan University
Kuan-Ting Chen, National Taiwan University
Yi-Hsuan Yang, National Taiwan University
Tzu-Hsuan Chiu, National Taiwan University
Winston Hsu, National Taiwan University

SIVA Suite

Britta Meixner, University of Passau
Beate Siegel, University of Passau
Günter Hölbling, University of Passau
Franz Lehner, University of Passau
Harald Kosch, University of Passau

Integrated Mobile Visualization and Interaction of Events and POIs

Daniel Schmeiß, University of Koblenz-Landau
Ansgar Scherp, University of Koblenz-Landau
Steffen Staab, University of Koblenz-Landau

3D Ancient Mosaics

Sebastiano Battiato, University of Catania
Giovanni Puglisi, University of Catania

Training Data Collection System for a Learning-based Photographic Aesthetic Quality Inference Engine

Razvan Orendovici, The Pennsylvania State University
James Wang, The Pennsylvania State University

Photo2Trip: An Interactive Trip Planning System Based on Geo-Tagged Photos

Huagang Yin, University of Science and Technology of China
Xin Lu, Tianjing University
Changhu Wang, Microsoft Research Asia
Nenghai Yu, University of Science and Technology of China
Lei Zhang, Microsoft Research Asia

Coming Together – Negotiated Content by Multi-agents

Arne Eigenfeldt, Simon Fraser University

Mobile Product Recognition

Sam Tsai, Stanford University
David Chen, Stanford University
Vijay Chandrasekhar, Stanford University
Gabriel Takacs, Stanford University
Ngai-Man Cheung, Stanford University
Ramakrishna Vedantham, Nokia Research Center
Radek Grzeszczuk, Nokia Research Center
Bernd Girod, Stanford University

ORAL SESSION

FULL F5

Content

Learning concepts in images

Chair:

Alan Smeaton, University of Dublin, IRL

S3MKL: Scalable Semi-supervised Multiple Kernel Learning for Image Data Mining

Shuhui Wang, Institute of Computing Technology, Chinese Academy of Sciences

Shuqiang Jiang, Institute of Computing Technology, Chinese Academy of Sciences

Qingming Huang, Graduate University, Chinese Academy of Sciences

Qi Tian, University of Texas at San Antonio

Discriminative Codeword Selection for Image Representation

Lijun Zhang, Zhejiang University

Chun Chen, Zhejiang University

Jiajun Bu, Zhejiang University

Zhengguang Chen, Zhejiang University

Shulong Tan, Zhejiang University

Xiaofei He, Zhejiang University

Supervised Reranking for Web Image Search

Linjun Yang, Microsoft Research Asia

Alan Hanjalic, Delft University of Technology

ORAL SESSION

INTERACTIVE ART IA1

Cultural heritage tools

Chair:

James Wang, Penn-State University, USA

Determining the Sexual Identities of Prehistoric Cave Artists using Digitized Handprints

James Wang, The Pennsylvania State University

Weina Ge, The Pennsylvania State University

Dean Snow, The Pennsylvania State University

Prasenjit Mitra, The Pennsylvania State University

C. Giles, The Pennsylvania State University

Enhanced Exploration of Oral History Archives through Processed Video and Synchronized Text Transcripts

Michael Christel, Carnegie Mellon University

Scott Stevens, Carnegie Mellon University

Bryan Maher, Carnegie Mellon University

Julieanna Richardson, The HistoryMakers

Surfing on Artistic Documents with Visually Assisted Tagging

Costantino Grana, University of Modena e Reggio Emilia

Daniele Borghesani, University of Modena e Reggio Emilia

Rita Cucchiara, University of Modena e Reggio Emilia

DISCUSSION ROOM DR1

Chairs:

Ramesh Jain, University of California at Irvine, USA

Forouzan Golshani, California State University at Long Beach, USA

Towards a Universal Detector by Mining Concepts with Small Semantic Gaps

Jiashi Feng, National University of Singapore

Yan-tao Zheng, Institute for Infocomm Research

Shuicheng Yan, National University of Singapore

Intelligent Query: Open Another Door to 3D Object Retrieval

Yue Gao, Tsinghua University

Meng Wang, AKiiRA Media Systems Inc.

Jialie Shen, Singapore Management University

Qionghai Dai, Tsinghua University

Naiyao Zhang, Tsinghua University

Interactive Storytelling via Video Content Recombination

Julie Porteous, Teesside University

Sergio Benini, University of Brescia

Luca Canini, University of Brescia

Fred Charles, Teesside University

Marc Cavazza, Teesside University
Riccardo Leonardi, University of Brescia

ORAL SESSION

FULL F6

Systems

Improving media delivery

Session Chair

Shervin Shirmohammadi, University of Ottawa, CA

Tenor: Making Coding Practical from Servers to Smartphones

Hassan Shojania, University of Toronto

Baochun Li, University Of Toronto

Improving Online Gaming Quality using Detour Paths

Cong Ly, Simon Fraser University

Cheng-Hsin Hsu, Deutsche Telekom Inc.

Mohamed Hefeeda, Simon Fraser University

Subjective Evaluation of Scalable Video Coding for Content Distribution

Jong-Seok Lee, EPFL,

Francesca De Simone, EPFL

Naeem Ramzan, Queen Mary University of Londo

Zhijie Zhao, Leibniz Universität Hannover

Engin Kurutepe, TU Berlin

Thomas Sikora, TU Berlin

Jörn Ostermann, Leibniz Universität Hannover

Ebroul Izquierdo, Queen Mary University of London

Touradj Ebrahimi, EPFL

Self-Diagnostic Peer-Assisted Video Streaming through a Learning Framework

Di Niu, University of Toronto

Baochun Li, University of Toronto

Shuqiao Zhao, UUSee, Inc.

POSTER SESSION

SHORT S3

Applications / Content

Chair:

Max Muehlhaeuser, University of Darmstadt, D

K-way Min-Max Cut for Image Clustering and Junk Images Filtering from Google Images

Feng Xie, State Key Lab of CAD&CD / Zhejiang University

Yi Shen, UNC-Charlotte

Xiaofei He, State Key Lab of CAD&CD / Zhejiang University

Smart Video Systems in Police Cars

Amirali Jazayeri, Indiana University Purdue University Indianapolis (IUPUI)

Hongyuan Cai, Indiana University Purdue University Indianapolis (IUPUI)

Mihran Tuceryan, Indiana University Purdue University Indianapolis (IUPUI)

Jiang Zheng, Indiana University Purdue University Indianapolis (IUPUI)

Interactive Inquiry for Object of Interest in Video Playback by Motion-Augmented Graph Cut

Po-Nung Tseng, National Taiwan University

Yen-Liang Lin, National Taiwan University

Winston Hsu, National Taiwan University

GPS, Compass, or Camera?: Investigating Effective Mobile Sensors for Automatic Search-Based Image Annotation

An-Jung Cheng, National Taiwan University

Fang-Erh Lin, National Taiwan University

Yin-Hsi Kuo, National Taiwan University

Winston Hsu, National Taiwan University

TwitterSigns: Microblogging on the Walls

Markus Buzeck, University of Münster

Jörg Müller, TU Berlin

Multi-exposure Imaging on Mobile Devices

Natasha Gelfand, Nokia Research

Andrew Adams, Stanford University
Sung Hee Park, Stanford University
Kari Pulli, Nokia Research

Towards Aesthetics: a Photo Quality Assessment and Photo Selection System

Congcong Li, Cornell University
Alexander Loui, Eastman Kodak Company
Tsuhan Chen, Cornell University

Cast2Face: Character Identification in Movie with Actor-Character Correspondence

Mengdi Xu, National University of Singapore
Xiaotong Yuan, National University of Singapore
Jialie Shen, Singapore Management University
Shuicheng Yan, National University of Singapore

Visual Security Evaluation for Video Encryption

Lingling Tong, Institute of Computing Technology, Chinese Academy of Sciences
Feng Dai, 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

Automatic Trailer Generation

Go Irie, NTT Corporation
Takashi Satou, NTT Corporation
Akira Kojima, NTT Corporation
Toshihiko Yamasaki, The University of Tokyo
Kiyoharu Aizawa, The University of Tokyo

Extracting Captions from Videos Using Temporal Feature

Xiaoqian Liu, Graduate University of Chinese Academy of Sciences
Weiqiang Wang, Key Lab of Intell. Info. Process.Inst. of Comput.Tech.

Automatic Role Recognition Based on Conversational and Prosodic Behaviour

Hugues Salamin, University of Glasgow
Khiet Truong, University of Twente
Gelareh Mohammadi, Idiap Research Institute
Alessandro Vinciarelli, University of Glasgow

VERT: Automatic Evaluation of Video Summaries

Yingbo Li, EURECOM
Bernard Meriardo, EURECOM

Character-Based Movie Summarization

Jitao Sang, Institute of Automation, Chinese Academy of Sciences
Changsheng Xu, Institute of Automation, Chinese Academy of Sciences

Supervised Manifold Learning for Image and Video Classification

Yang Liu, The Hong Kong Polytechnic University
Yan Liu, The Hong Kong Polytechnic University
Keith C.C. Chan, The Hong Kong Polytechnic University

Unsupervised Object Category Discovery via Information Bottleneck Method

Zhengzheng Lou, School of Information Engineering, Zhengzhou University
Yangdong Ye, School of Information Engineering, Zhengzhou University
Dong Liu, School of Computer Sci. & Tec., Harbin Insitute of Technology

Probabilistic Visual Concept Trees

Lexing Xie, IBM Research
Rong Yan, Facebook
Jelena Tesic, Mayachitra
Apostol Natsev, IBM Research
John Smith, IBM Research

A Conditional Random Field Viewpoint of Symbolic Audio-to-Score Matching

Cyril Joder, Institut Telecom – Telecom ParisTech – CNRS/LTCI
Slim ESSID, Institut Telecom – Telecom ParisTech – CNRS/LTCI
Gaël Richard, Institut Telecom – Telecom ParisTech – CNRS/LTCI

Bilingual Query Translation and Expansion for Supporting More Effective Cross-Language Image Retrieval

Yuejie Zhang, Fudan University

Lei Cen, Fudan University
Jin Cheng, Fudan University
Xiangyang Xue, Fudan University
Ning Zhou, UNC-Charlotte

The Idiap Wolf Corpus: Exploring group behaviour in a competitive role-playing game
Hayley Hung, University of Amsterdam
Gokul Chittaranjan, Idiap Research Institute

Face Hallucination with Shape Parameters Projection Constraint
Chengdong Lan, Wuhan University
Ruimin Hu, Wuhan University
Kebin Huang, Wuhan University
Zhen Han, Wuhan University

Automatic Detection of Malicious Sound Using Segmental Two-Dimensional Mel-Frequency Cepstral Coefficients and Histograms of Oriented
Myung Jong Kim, Korea Advanced Institute of Science and Technology (KAIST)
Younggwan Kim, Korea Advanced Institute of Science and Technology (KAIST)
JaeDeok Lim, Electronics and Telecommunications Research Institute (ETRI)
Hoirin Kim, Korea Advanced Institute of Science and Technology (KAIST)

Automatic Interesting Object Extraction From Images Using Complementary Saliency Maps
Haonan Yu, National Engineering Laboratory for Video Technology (NELVT), School of EE & CS, Peking University
Jia Li, Key Lab of Intell. Info. Process, Inst. of Comput. Tech., Chinese Academy of Sciences, China
Yonghong Tian, National Engineering Laboratory for Video Technology (NELVT), School of EE & CS, Peking University
Tiejun Huang, National Engineering Laboratory for Video Technology (NELVT), School of EE & CS, Peking University

Interactive Retrieval of Targets for Wide Area Surveillance
Saad Ali, Sarnoff Corp.
Omar Javed, Sarnoff Corp.
Neils Haering, ObjectVideo Inc.
Takeo Kanade, Robotics Institute, Carnegie Mellon University

DEMO SESSION

DEMO D3

Chair:
Kiyoharu Aizawa, University of Tokyo, J

Joke-o-mat HD: Browsing Sitcoms with Human Derived Transcripts
Adam Janin, International Computer Science Institute
Luke Gottlieb, International Computer Science Institute
Gerald Friedland, International Computer Science Institute

Multi-exposure Imaging on Mobile Devices (Demo)
Natasha Gelfand, Nokia Research
Andrew Adams, Stanford University
Sung Hee Park, Stanford University
Kari Pulli, Nokia Research

iComics: Automatic Conversion of Movie into Comics
Richang Hong, School of Computing, National University of Singapore
Meng Wang, Akiira Media Systems Inc.
Guangda Li, School of Computing, National University of Singapore
Xiao-Tong Yuan, Dept. of ECE, National University of Singapore
Shuicheng Yan, Dept. of ECE, National University of Singapore
Tat-Seng Chua, School of Computing, National University of Singapore

vESP: Enriching Enterprise Document Search Results with Aligned Video Summarization
Pål Halvorsen, University of Oslo / Simula
Dag Johansen, University of Tromsø
Bjørn Olstad, Microsoft
Tomas Kupka, University of Oslo
Sverre Tennøe, Microsoft

MindFinder: Interactive Sketch-based Image Search on Millions of Images
Yang Cao, Shanghai Jiao Tong University
Hai Wang, University of Science and Technology of China
Changhu Wang, Microsoft Research Asia
Zhiwei Li, Microsoft Research Asia

Liqing Zhang, Shanghai Jiao Tong University
Lei Zhang, Microsoft Research Asia

Facilitating Interactive Search and Navigation in Videos
Klaus Schoeffmann, Klagenfurt University

BIOFACE, a Biometric Face Demonstrator
Mourad Ouaret, Orange, France-Telecom R&D
Antitza Dantcheva, Eurecom
Rui Min, Eurecom
Lionel Daniel, Eurecom
Jean Luc Dugelay, Eurecom

ClustTour: City Exploration by use of Hybrid Photo Clustering
Symeon Papadopoulos, Informatics & Telematics Inst.
Christos Zigkolis, Informatics & Telematics Inst.
Stefanos Kapiris, Aristotle University
Yiannis Kompatsiaris, Informatics & Telematics Inst.
Athena Vakali, Aristotle University

Wednesday, October 27 *morning*

PLENARY PL2

TECHNICAL ACHIEVEMENT AWARD PRESENTATION

Ramesh Jain, University of California at Irvine, USA

Life = Experiences(Events) + Vision

Session Chair:

Rainer Lienhart, University of Augsburg, D

BEST PAPER SESSION

A Coherent Framework for Photo-Quality Assessment and Enhancement based on Visual Aesthetics

Subhabrata Bhattacharya

Rahul Sukthankar

Mubarak Shah

Music Recommendation by Unified Hypergraph: Combining Social Information and Music Content

Jiajun Bu, Zhejiang University

Shulong Tan, Zhejiang University

Chun Chen, Zhejiang University

Can Wang, Zhejiang University

Hao Wu, Zhejiang University

Lijun Zhang, Zhejiang University

Xiaofei He, Zhejiang University

Dynamic Captioning: Video Accessibility Enhancement for Hearing Impairment

Richang Hong, School of Computing, National University of Singapore

Meng Wang, School of Computing, National University of Singapore

Mengdi Xu, Dept. of ECE, National University of Singapore

Shuicheng Yan, Dept. of ECE, National University of Singapore

Tat-Seng Chua, School of Computing, National University of Singapore

A Cognitive Approach for Effective Coding and Transmission of 3D Video

Simone Milani, University of Padova

Giancarlo Calvagno, University of Padova

Session Chair:

Klara Nahrstedt, University of Illinois, USA

ORAL SESSION

FULL F7

Applications / Content

Multimodal image and video search

Chair:

Bernard Merialdo, EURECOM, F

iLike: Integrating Visual and Textual Features for Vertical Search

Yuxin Chen, University of Kansas

Nenghai Yu, University of Science and Technology of China

Bo Luo, University of Kansas
Xue-wen Chen, University of Kansas

Feature Map Hashing: Sub-linear Indexing of Appearance and Global Geometry

Yannis Avrithis, National Technical University of Athens
Giorgos Toliás, National Technical University of Athens
Yannis Kalantidis, National Technical University of Athens

TalkMiner: A Lecture Webcast Search Engine

John Adcock, FX Palo Alto Laboratory
Matthew Cooper, FX Palo Alto Laboratory
Laurent Denoue, FX Palo Alto Laboratory
Hamed Pirsiavash, University of California, Irvine
Lawrence Rowe, FX Palo Alto Laboratory

A New Approach to Cross-Modal Multimedia Retrieval

Nikhil Rasiwasia, University of California, San Diego
Jose Costa Pereira, University of California, San Diego
Emanuele Coviello, University of California, San Diego
Gabriel Doyle, University of California, San Diego
Gert Lanckriet, University of California, San Diego
Roger Levy, University of California, San Diego
Nuno Vasconcelos, University of California, San Diego

ORAL SESSION

FULL F8

Applications

Assisted authoring of media content

Chair:

Mohan Kankanhalli, National University of Singapore, SG

Color Matching of Image Sequences with Combined Gamma and Linear Correction

Yingen Xiong, Nokia Research Center
Kari Pulli, Nokia Research Center

A Framework for Photo-Quality Assessment and Enhancement based on Visual Aesthetics

Subhabrata Bhattacharya, University Of Central Florida
Rahul Sukthankar, Intel Labs And Carnegie Melon University
Mubarak Shah, University Of Central Florida

Automated Aesthetic Enhancement of Videos

Yangyang Xiang, National University of Singapore
Mohan Kankanhalli, National University of Singapore

Learning to Photograph

Bin Cheng, NUS
Bingbing Ni, NUS
Shuicheng Yan, NUS
Qi Tian, UTSA

ORAL SESSION

FULL F9

Human-centered multimedia / Systems

Enriched and extended media presentation

Chair:

Dulce Ponceleon, IBM Almaden Research Center

Ink Jet Olfactory Display Enabling Instantaneous Switches of Scents

Sayumi Sugimoto, Graduate School of Science and Technology Keio University
Daisuke Noguchi, Graduate School of Science and Technology Keio University
Yuichi Bannai, CANON Inc.
Kenichi Okada, Graduate School of Science and Technology Keio University

e-Fovea: A Multi-Resolution Approach with Steerable Focus to Large-Scale and High-Resolution Monitoring

Kuan-Wen Chen, National Taiwan University
Chih-Wei Lin, National Taiwan University
Mike Chen, National Taiwan University
Yi-Ping Hung, National Taiwan University

Impact of Zooming and Enhancing Region of Interests for Optimizing User Experience on Mobile Sports Video

Wei Song, Faculty of Science and Technology

Dian Tjondronegoro, Faculty of Science and Technology

Shu-Hsien Wang, Faculty of Science and Technology

Michael Docherty, Faculty of Science and Technology

Webcams in Context: Web Interfaces to Create Live 3D Environments

Austin Abrams, Washington University in St. Louis

Robert Pless, Washington University in St. Louis

ACM SIGMM BUSINESS MEETING

State of the SIGMM

SIGMM Activities/Events between October 2009-September 2010

Presentations prepared by:

Klara Nahrstedt

Mohan Kankanhalli

Rainer Lienhart

Ralf Steinmetz

Carsten Griwotz

Balakrishnan

Thomas Plageman

Wei Tsang Ooi

Mohamed Hefeeda

Baochun Li

Remember Nicolas Georganas

New Editor-in-Chief, Professor Ralf Steinmetz at TOMCCAP, 2010

SIGMM Awards

winner of 2010 SIGMM technical achievement award, and future submissions for 2011

winner of 2010 SIGMM PhD thesis award, and future submissions for 2011

Status report on various SIGMM sponsored conferences and in-cooperation

Budget – what we do with SIGMM funds

Future Efforts

New initiatives at SIGMM sponsored events to further energize the SIGMM and overall multimedia community

(some proposals are in, and also looking for new proposals)

New conference efforts

- ACM Multimedia 2012 – 20 years of ACM Multimedia celebration
 - New Bidding efforts for future ACM SIGMM Multimedia conferences
 - New Reporting guidelines for future SIGMM-sponsored conferences
-

Status/new efforts in SIGMM education

Status/new efforts in SIGMM preservations of our conference websites

(ACM Multimedia 1993 – 2010, NOSSDAV, ...)

Status/new efforts in SIGMM support for industry-academia collaboration

Status/new efforts in SIGMM Web-Portal (sigmm.org)

Status/new efforts in TOMCCAP

Status/new efforts in SIGMM records (e-newsletter for SIGMM Community)

Status/new efforts in Springer Multimedia Systems Journal

Bids presentation for 2012 and 2013

Chaired by Mohan Kankanhalli

POSTER SESSION

SHORT S4

Applications / Content

Chair:

Lexing Xie, IBM Corp., USA

Restoration of Out-of-focus Lecture Video by Automatic Slide Matching

Ngai-Man Cheung, Stanford University
David Chen, Stanford University
Vijay Chandrasekhar, Stanford University
Sam Tsai, Stanford University
Gabriel Takacs, Stanford University
Sherif Halawa, Stanford University
Bernd Girod, Stanford University

Increasing Interactivity in Street View Web Navigation Systems
Alexandre Devaux, Université Paris-Est, IGN, MATIS
Nicolas Paparoditis, Université Paris-Est, IGN, MATIS

Improving Face Clustering Using Social Context
Peng Wu, Hewlett-Packard Company
Feng Tang, Hewlett-Packard Company

Region Categorization with Mobile Applications
Jiang Gao, Nokia Corporation

Topic Discovery of Web Video Using Star-structured K-partite Graph
Jian Shao, Zhejiang University
Wentao Yin, Zhejiang University
Shuai Ma, Zhejiang University
Yueting Zhuang, Zhejiang University

Video Retargeting for Aesthetic Enhancement
Yang-Yang Xiang, National University of Singapore
Mohan Kankanhalli, National University of Singapore

FireVolleyball: Multi-player Interactive Game Providing a Sense of Touching Fire
Sei Ikeda, Nara Institute of Science and Technology
Yuki Uranishi, Nara Institute of Science and Technology
Yoshitsugu Manabe, Nara Institute of Science and Technology
Kunihiro Chihara, Nara Institute of Science and Technology

Memory Matrix: A Novel User Experience for Home Video
Qianqian Xu, Graduate University of Chinese Academy of Sciences
Zhipeng Wu, Graduate University of Chinese Academy of Sciences
Guorong Li, Graduate University of Chinese Academy of Sciences
Lei Qin, Institute of Computing Technology, Chinese Academy of Sciences
Shuqiang Jiang, Institute of Computing Technology, Chinese Academy of Sciences
Qingming Huang, Graduate University of Chinese Academy of Sciences

Artistic Paper-Cut of Human Portraits
Meng Meng, Lotus Hill Institute & Beijing Institute of Technology
Mingtian Zhao, Lotus Hill Institute & University of California, Los Angeles
Song-Chun Zhu, Lotus Hill Institute & University of California, Los Angeles

Robust Hashing for Music Copyright Protection by Combining Beat Segmentation and Chroma
Wei Li, Fudan University
Zhurong Wang, Fudan University
Bilei Zhu, Fudan University
Xiangyang Xue, Fudan University

Explicit and Implicit Concept-based Video Retrieval with Bipartite Graph Propagation Model
Lei Bao, Laboratory for Advanced Computing Technology Research, ICT, CAS
Juan Cao, Laboratory for Advanced Computing Technology Research, ICT, CAS
Yongdong Zhang, Laboratory for Advanced Computing Technology Research, ICT, CAS
Jintao Li, Laboratory for Advanced Computing Technology Research, ICT, CAS
Ming-yu Chen, School of Computer Science, Carnegie Mellon University
Alexander Hauptmann, School of Computer Science, Carnegie Mellon University

Lightweight TV Logo Recognition based on Image Moment
Masaru Sugano, KDDI R&D Laboratories, Inc.
Shigeyuki Sakazawa, KDDI R&D Laboratories, Inc.

Representative Views Re-Ranking for 3D Model Retrieval with Multi-Bipartite Graph Reinforcement Model
Yue Gao, Tsinghua University
You Yang, Tsinghua University

Qionghai Dai, Tsinghua University
Naiyao Zhang, Tsinghua University

Sorted Label Classifier Chains for Learning Images with Multi-label

Xi Liu, Institute of Computing Technology, Chinese Academy of Sciences
Zhiping Shi, Institute of Computing Technology, Chinese Academy of Sciences
Zhixin Li, Institute of Computing Technology, Chinese Academy of Sciences
Xishun Wang, Institute of Computing Technology, Chinese Academy of Sciences
Zhongzhi Shi, Institute of Computing Technology, Chinese Academy of Sciences

3D Object Retrieval with Bag-of-Region-Words

Yue Gao, Tsinghua University
You Yang, Tsinghua University
Qionghai Dai, Tsinghua University
Naiyao Zhang, Tsinghua University

3D Object Search Through Semantic Component

Chunjing Xu, Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences, China
Zhengwu Zhang, Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences, China
Jianzhuang Liu, The Chinese University of Hong Kong, China
Xiaoou Tang, The Chinese University of Hong Kong, China

Keep Moving! Revisiting Thumbnails for Mobile Video Retrieval

Wolfgang Hürst, Utrecht University
Cees Snoek, University of Amsterdam
Willem-Jan Spoel, Utrecht University
Mate Tomin, Utrecht University

Semantic Video Indexing by Fusing Explicit and Implicit Context Spaces

Yingbin Zheng, Fudan University
Renzhong Wei, Fudan University
Hong Lu, Fudan University
Xiangyang Xue, Fudan University

Effective Logo Retrieval with Adaptive Local Feature Selection

Jianlong Fu, Institute of Automation, Chinese Academy of Sciences
Jinqiao Wang, Institute of Automation, Chinese Academy of Sciences
Hanqing Lu, Institute of Automation, Chinese Academy of Sciences

Mining Common Object from Images: a Bottom-Up Approach

Gangqiang Zhao, Nanyang Technological University
Junsong Yuan, Nanyang Technological University

Saliency Detection Based on 2D Log-Gabor Wavelets and Center Bias

Min Wang, National Engineering Laboratory for Video Technology (NELVT), School of EE & CS, Peking University
Jia Li, Key Lab of Intell. Info. Process, Inst. of Comput. Tech., Chinese Academy of Sciences, China
Tiejun Huang, National Engineering Laboratory for Video Technology (NELVT), School of EE & CS, Peking University
Yonghong Tian, National Engineering Laboratory for Video Technology (NELVT), School of EE & CS, Peking University
Lingyu Duan, National Engineering Laboratory for Video Technology (NELVT), School of EE & CS, Peking University
Guochen Jia, National Engineering Laboratory for Video Technology (NELVT), School of EE & CS, Peking University

Heterogeneous Feature Selection by Group Lasso with Logistic Regression

Fei Wu, Zhejiang University
Ying Yuan, Zhejiang University
Yueting Zhuang, Zhejiang University

A Novel Audio Fingerprinting Method Robust to Time Scale Modification and Pitch Shifting

Bilei Zhu, Fudan University
Wei Li, Fudan University
Zhurong Wang, Fudan University
Xiangyang Xue, Fudan University

Image Classification Using The Web Graph

Dhruv Mahajan, Yahoo
Malcolm Slaney, Yahoo

DEMO SESSION

DEMO D4

Chair:

Winston Hsu, National Taiwan University, TW

Rerum Novarum: Interactive Exploration of Illuminated Manuscripts

Daniele Borghesani, University of Modena e Reggio Emilia
Costantino Grana, University of Modena e Reggio Emilia
Rita Cucchiara, University of Modena e Reggio Emilia

Sirio, Orione and Pan: an Integrated Web System for Ontology-based Video Search and Annotation

Marco Bertini, University of Firenze
Gianpaolo D'Amico, University of Firenze
Andrea Ferracani, University of Firenze
Marco Meoni, University of Firenze
Giuseppe Serra, University of Firenze

Web-based Semantic Browsing of Video Collections using Multimedia Ontologies

Marco Bertini, University of Firenze
Gianpaolo D'Amico, University of Firenze
Andrea Ferracani, University of Firenze
Marco Meoni, University of Firenze
Giuseppe Serra, University of Firenze

MediaTable: a tool for categorizing multimedia collections

Ork Rooij, University of Amsterdam
Marcel Worring, University of Amsterdam

Interactive Person-Retrieval in TV Series and Distributed Surveillance Video

Martin Bäuml, Karlsruhe Institute of Technology
Mika Fischer, Karlsruhe Institute of Technology
Keni Bernardin, Karlsruhe Institute of Technology
Hazim Ekenel, Karlsruhe Institute of Technology
Rainer Stiefelhagen, Karlsruhe Institute of Technology

Trajectory-based Visualization of Web Video Topics

Juan Cao, Institute of Computing Technology, Chinese Academy of Science
Chong-Wah Ngo, Computer Science Department, City University of Hong Kong
YongDong Zhang, Institute of Computing Technology, Chinese Academy of Science
DongMing Zhang, Institute of Computing Technology, Chinese Academy of Science
Liang Ma, Institute of Computing Technology, Chinese Academy of Science

Adding Haptic Feature to YouTube

Md. Abdur Rahman, University of Ottawa
Abdulmajeed Alkhalidi, University of Ottawa
Jongeun Cha, University of Ottawa
Abdulmotaleb El Saddik, University of Ottawa

Assisted news reading with automated illustration

Diogo Delgado, Universidade Nova de Lisboa
Joao Magalhaes, Universidade Nova de Lisboa
Nuno Correia, Universidade Nova de Lisboa

MediaPick: Tangible Semantic Media Retrieval System

Gianpaolo D'Amico, University of Firenze, Italy
Andrea Ferracani, University of Firenze, Italy
Lea Landucci, University of Firenze, Italy
Matteo Mancini, University of Firenze, Italy
Daniele Pezzatini, University of Firenze, Italy
Nicola Torpei, University of Firenze, Italy

Effects of Environmental Colour on Mood: A Wearable LifeColour Capture Device

Aiden Doherty, Dublin City University
Philip Kelly, Dublin City University
Brendan O'Flynn, Tyndall Research Institute
Padraig Curran, Tyndall Research Institute
Alan Smeaton, Dublin City University
Cian O'Mathuna, Tyndall Research Institute
Noel O'Connor, Dublin City University

afternoon

PLENARY PL3

MULTIMEDIA GRAND CHALLENGE

Session Chair:

Cees Snoek, University of Amsterdam, NL; Malcom Slaney, Yahoo Corp., USA

Master of Ceremonies:

Ayman Shamma, Yahoo Corp., USA

Searching and Browsing Social Images through iAVATAR

Aixin Sun

Sourav Bhowmick

Human Body Tracking of Tennis Players using Hierarchical Particle

Filtering and Variable Windows

Adolfo López-Méndez

Marcel Alcoverro

Montse Pardas

Josep R. Casas

Gaze Awareness and Interaction Support in Presentations: Video

Conference Experience Grand Challenge Statement

Kar-Han Tan

Dan Gelb

Ramin Samadani

Ian N Robinson

Bruce Culbertson

John Apostolopoulos

Introducing topic segmentation and segmented-based browsing tools into a content based video retrieval system

Julien Law-To

Gregory Grefenstette

Jean-Luc Gauvain

Guillaume Gravier

Lori Lamel

Julien Despres

Google Challenge 2010: Efficient Genre-specific Semantic Video Indexing

Jun Wu

Marcel Worring

Social Game Epitome versus Automatic Visual Analysis

Peter Vajda

Ivan Ivanov

Lutz Goldmann

Touradj Ebrahimi

A low-cost performance analysis and coaching system for tennis

Philip T. Kelly

Petros Daras

Noel. E. O'Connor

Juan Diego Pérez-Moneo Agapito

Rendering Panorama in Mobile Video Conferencing

Shu Shi

Zhengyou Zhang

Multi-Scale Entropy analysis of Dominance in Social Creative Activities

Donald Glowinski

Paolo Coletta

Using Android and Indoor Localization for Diaries

Eladio Martin

Oriol Vinyals

Gerald Friedland

Ruzena Bajcsy

VIRaL: Visual Image Retrieval and Localization

Yannis Avrithis

Yannis Kalantidis

Giorgos Tolias

Audience Dependent Photo Collection Summarization

Pere Obrador
Rodrigo de Oliveira
Nuria Oliver

Learning-to-Photograph towards HP Challenge

Bin Cheng
Bingbing Ni
Shuicheng Yan
Qi Tian

Understanding Affect in Images

Jana Machajdik
Allan Hanbury
Julian Stöttinger

Towards Yahoo! Challenge: A Generic Event Detection and Segmentation

System for Video Navigation and Search
Tianzhu Zhang
Changsheng Xu
Guangyu Zhu
Si Liu, Hanqing Lu

Video Classification based on Contextual Visual Vocabulary

Shiliang Zhang
Qi Tian
Gang Hua
Qingming Huang
Shuqiang Jiang
Wen Gao

Improving Personal Diaries Using Social Audio Features

Michael Kuhn
Roger Wattenhofer
Samuel Welten

ROI-based Content Adaptation for Mobile Device Usage of Video Conferencing

Wei Song
Dian Tjondronegoro
Ivan Himawan

DISCUSSION ROOM DR1

Chairs:
Ramesh Jain, University of California at Irvine, USA
Forouzan Golshani, California State University at Long Beach, USA

Free discussions from Tweets

PANEL PA2

All Things Mobile: The Present and Future of Mobile Phone Computing Proposers

Chair:
Daniel Gatica-Perez, Idiap Research Institute, Switzerland

Panelists:

Juha Laurila, Nokia Research Center, Lausanne
Berna Erol, Ricoh
Shipeng Li, Microsoft Research Asia
Ramesh Jain, University of California, Irvine

ORAL SESSION

FULL F10

Human-centered multimedia

Improved interactivity

Chair:
Jie Yang, Carnegie Mellon University, USA

Toward More Efficient User Interfaces for Mobile Video Browsing: An In-Depth Exploration of the Design Space

Jochen Huber, Technische Universität Darmstadt

Jürgen Steimle, Technische Universität Darmstadt
Max Mühlhäuser, Technische Universität Darmstadt

Error-Resilient Perceptual Coding for Networked Haptic Interaction

Fernanda Brandi, Technische Universität München
Julius Kammerl, Technische Universität München
Eckehard Steinbach, Technische Universität München

FACT: Fine-grained Cross-media Interaction with Documents via a Portable Hybrid Paper-Laptop Interface

Chunyan Liao, FX Palo Alto Laboratory
Hao Tang, University of Illinois at Urbana-Champaign
Qiong Liu, FX Palo Alto Laboratory
Patrick Chiu, FX Palo Alto Laboratory
Francine Chen, FX Palo Alto Laboratory

An Immersive System for Browsing and Visualizing Surveillance Video

Philip DeCamp, MIT Media Lab
George Shaw, MIT Media Lab
Rony Kubat, MIT Media Lab
Deb Roy, MIT Media Lab

ORAL SESSION

INTERACTIVE ART IA2

Art and multimedia

Chair:

Tiziana Catarci University Roma La Sapienza, I

Bateau Ivre: An Artistic Markerless Outdoor Mobile Augmented Reality Installation on a Riverboat

Christian Jacquemin, LIMSI-CNRS & University Paris 11
Wai Kit Chan, LIMSI-CNRS
Mathieu Courgeon, LIMSI-CNRS & University Paris 11

Sonify Your Face: Facial Expressions for Sound Generation

Roberto Valenti, University of Amsterdam
Alejandro Jaimes, Yahoo! Research
Nicu Sebe, University of Trento

Flow

Fiona Bowie, Fiona Bowie Studio, Emily Carr University
Sidney Fels, University of British Columbia
Morgan Hibbert, University of British Columbia

Ozone: Continuous State-based Media Choreography System for Live Performance

Xin Wei Sha, Concordia University
Michael Fortin, Concordia University
Navid Navab, Concordia University
Timothy Sutton, Concordia University

POSTER SESSION

SHORT S5

Content / Human-centered multimedia

Chair:

Marc Cavazza, University of Teesside, UK

Interactive Learning of Heterogeneous Visual Concepts with Local Features

Wajih Ouertani, INRIA – IMEDIA Project and INRA
Michel Crucianu, INRIA – IMEDIA Project and CEDRIC – CNAM
Nozha Boujemaa, INRIA – IMEDIA Project

Index Support for Content-Based Multimedia Exploration

Christian Beecks, RWTH Aachen University
Philip Driessen, RWTH Aachen University
Thomas Seidl, RWTH Aachen University

Hybrid Active Learning for Cross-Domain Video Concept Detection

Huan Li, Beihang University
Yuan Shi, Carnegie Mellon University
Ming-yu Chen, Carnegie Mellon University
Alexander Hauptmann, Carnegie Mellon University

Zhang Xiong, Beihang University

Hierarchical Image Feature Extraction And Classification

Min-Hsuan Tsai, University of Illinois at Urbana-Champaign
Shen-Fu Tsai, University of Illinois at Urbana-Champaign
Thomas Huang, University of Illinois at Urbana-Champaign

Revealing Real Quality of Double Compressed MP3 Audio

Mengyu Qiao, New Mexico Tech
Andrew Sung, New Mexico Tech
Qingzhong Liu, Sam Houston State University

Prediction of Favourite Photos using Social, Visual, and Textual Signals

Roelof van Zwol, Yahoo! Research
Adam Rae, Open University
Lluis Garcia Pueyo, Yahoo! Research

One Person Labels One Million Images

Jinhui Tang, National University of Singapore
Qiang Chen, National University of Singapore
Shuicheng Yan, National University of Singapore
Tat-Seng Chua, National University of Singapore
Ramesh Jain, University of California, Irvine

A Novel Virtual World based HCI Paradigm for Multimedia Scholarly Communication

Arturo Nakasone, National Institute of Informatics
Tiago da Silva, National Institute of Informatics
Andreas Budde, National Institute of Informatics
Kugamoorthy Gajananan, National Institute of Informatics
Tri Truong, National Institute of Informatics
Helmut Prendinger, National Institute of Informatics

Kodak Moments and Flickr Diamonds

Radu Negoescu, Idiap Research Institute
Alexander Loui, Kodak Research Labs
Daniel Gatica-Perez, Idiap Research Institute

Inter-ACT: An Affective and Contextually Rich Multimodal Video Corpus for Studying Interaction with Robots

Ginevra Castellano, Queen Mary University of London
Iolanda Leite, Instituto Superior Tecnico
Andre Pereira, Instituto Superior Tecnico
Carlos Martinho, Instituto Superior Tecnico
Ana Paiva, Instituto Superior Tecnico
Peter McOwan, Queen Mary University of London

Multi-Scale Entropy analysis of Dominance in Social Creative Activities

Donald Glowinski, University of Genoa
Paolo Coletta, University of Genoa
Carlo Chiorri, University of Genoa
Gualtiero Volpe, University of Genoa
Antonio Camurri, University of Genoa
Andrea Schenone, University of Genoa

Evaluation of Digital Games using QOL Measurements

Yukari Hori, University of Tokyo
Akira Baba, University of Tokyo

MuVis: An Application for Interactive Exploration of Large Music Collections

Ricardo Dias, INESC-ID/IST/Technical University of Lisbon
Manuel Fonseca, INESC-ID/IST/Technical University of Lisbon

From Photo Networks to Social Networks, Creation and Use of a Social Network Derived with Photos

Michel Plantié, Ecole des Mines d'Ales
Michel Crampes, Ecole des Mines d'Ales

Enriching Audio-Visual Chat with Conversation-Based Image Retrieval and Display

Jeroen Vanattenhoven, Centre for User Experience Research – IBBT / Katholieke Universiteit Leuven
Christof van Nimwegen, Centre for User Experience Research – IBBT / Katholieke Universiteit Leuven
Matthias Strobbe, Ghent University – IBBT, Department of Information Technology

Olivier Van Laere, Ghent University – IBBT, Department of Information Technology
Bart Dhoedt, Ghent University – IBBT, Department of Information Technology

A Shape-Free, Designable 6-DoF Marker Tracking Method for Camera-Based Interaction in Mobile Environment
Hiroki NISHINO, National University of Singapore

iWalk, A Tool for Interacting with Geo-Located Data Through Movement and Gesture
Visruth Premraj, Stony Brook University
Margaret Schedel, Stony Brook University
Tamara Berg, Stony Brook University

The Colour of Life: Novel Visualisations of Population Lifestyles
Philip Kelly, Dublin City University
Aiden Doherty, Dublin City University
Alan Smeaton, Dublin City University
Cathal Gurrin, Dublin City University
Noel O'Connor, Dublin City University

AudioFeeds – A Mobile Auditory Application for Monitoring Online Activities
Tilman Dingler, University of Munich
Stephen Brewster, University of Glasgow

User Driven Audio Content Navigation for Spoken Web
Ketki Dhanesha, IBM Research
Nitendra Rajput, IBM Research
Kundan Srivastava, IBM Research

Structuring Ordered Nominal Data for Event Sequence Discovery
Chreston Miller, Virginia Tech
Francis Quek, Virginia Tech
Naren Ramakrishnan, Virginia Tech

Automated Sleep Quality Measurement using EEG Signal
Wei Zhao, National University of Singapore
Xinxi Wang, National University of Singapore
Ye Wang, National University of Singapore

Deducing User's Fatigue from Haptic Data
Abdelwahab Hamam, University of Ottawa
Fawaz Alsulaiman, University of Ottawa
Abdulmotaleb El Saddik, University of Ottawa
Nicolas Georganas, University of Ottawa

Context-based Indoor Object Detection as an Aid to Blind Persons Accessing Unfamiliar Environments
Xiaodong Yang, The City College of New York
YingLi Tian, The City College of New York
Chuai Yi, The City University of New York
Aries Ardit, Lighthouse International

DEMO SESSION

DEMO D5

Session Chair:

Paul Natsev, IBM Corp., USA

Mobile Video Browsing and Retrieval with the OVIDIUS Platform
Andrei Bursuc, Institut TELECOM; TELECOM SudParis
Titus Zaharia, Institut TELECOM; TELECOM SudParis
Francoise Preteux, Mines ParisTech

Serious Games for Health – Personalized Exergames
Stefan Göbel, TU Darmstadt
Sandro Hardy, TU Darmstadt
Viktor Wendel, TU Darmstadt
Florian Mehm, TU Darmstadt
Ralf Steinmetz, TU Darmstadt

A GPU-Accelerated Face Annotation System for Smartphones
Yi-Chu Wang, University of California, Santa Barbara
Sydney Pang, University of California, Santa Barbara
Kwang-Ting Cheng, University of California, Santa Barbara

Crew: Cross-modal Resource Searching by Exploiting Wikipedia

Chen Liu, NUS

Beng Chin Ooi, NUS

Anthony K. H. Tung, NUS

Dongxiang Zhang, NUS

Construction of Image Retrieval Systems Focused on User Knowledge Interaction

Tomoko Kajiyama, Aoyama Gakuin University

Shin'ichi Satoh, National Institute of Informatics

Visualization of Concurrent Tones in Music with Colours

Peter Ciuha, ALUO, University of Ljubljana

Bojan Klemenc, FRI, University of Ljubljana

Franc Solina, FRI, University of Ljubljana

Changing Characters' Point of View in Interactive Storytelling

Fred Charles, Teesside University

Julie Porteous, Teesside University

Marc Cavazza, Teesside University

Speeding Up Mobile Multimedia Applications

Jiang Gao, Nokia Corporation

A Multimedia Approach to Visualize and Interact with Large Scale Mobile LiDAR Data

James Lynch, NAVTEQ

Xin Chen, NAVTEQ

Roger Hui, NAVTEQ

Automatic Skin Enhancement with Visible and Near-Infrared Image Fusion

Sabine Susstrunk, Ecole Polytechnique Fédérale de Lausanne (EPFL)

Clément Fredembach, Ecole Polytechnique Fédérale de Lausanne (EPFL)

Daniel Tamburrino, Ecole Polytechnique Fédérale de Lausanne (EPFL)

Thursday, October 28

morning

PLENARY PL4

Visual Crowd Surveillance is Like Hydrodynamics

Mubarak Shah

Chair:

Alberto Del Bimbo, University of Firenze, I

SIGMM PHD AWARD PRESENTATION

Geometry-Aware Analysis of High-Dimensional Visual Information Sets

Effrosyni Kokiopoulou, Ecole Polytechnique Federale de Lausanne, CH

Session Chair:

Svetha Venkatesh, Curtin University of Technology, AUS

PANEL PA3

DISPUTATIO on the use of Ontologies for Semantic

Panel Chairs:

Ed Chang, Google Corp., China

Tat-Seng Chua, National University of Singapore, SG

ORAL SESSION

FULL F11

Applications / Content

Novel aids for music retrieval

Session Chair:

Gerald Friedland, University of California, Berkeley, USA

Combining Multi-Probe Histogram and Order-Statistics Based LSH for Scalable Audio Content Retrieval

Yi Yu, New Jersey Institute of Technology

Michel Crucianu, CEDRIC – CNAM

Vincent Oriá, New Jersey Institute of Technology

Ernesto Damiani, University of Milano

Music Recommendation by Unified Hypergraph: Combining Social Media Information and Music Content

Jiajun Bu, Zhejiang University
Shulong Tan, Zhejiang University
Chun Chen, Zhejiang University
Can Wang, Zhejiang University
Hao Wu, Zhejiang University
Lijun Zhang, Zhejiang University
Xiaofei He, Zhejiang University

Large-scale Music Tag Recommendation with Explicit Multiple Attributes

Zhendong Zhao, National University of Singapore
Xinxi Wang, National University of Singapore
Qiaoliang Xiang, National University of Singapore
Andy Sarroff, National University of Singapore
Zhonghua Li, National University of Singapore
Ye Wang, National University of Singapore

Social Audio Features for Advanced Music Retrieval Interfaces

Michael Kuhn, ETH Zurich
Roger Wattenhofer, ETH Zurich
Samuel Welten, ETH Zurich

FULL F12

Systems

3D video

Session Chair:

Wolfgang Effelsberg, University of Mannheim, D

A Cognitive Approach for Effective Coding and Transmission of 3D Video

Simone Milani, University of Padova
Giancarlo Calvagno, University of Padova

Modeling 3D Facial Expressions Using Geometry Videos

Jiazhi Xia, Nanyang Technological University
Ying He, Nanyang Technological University
Dao Quynh, Nanyang Technological University
Xiaoming Chen, Nanyang Technological University
Steven Hoi, Nanyang Technological University

A High-Quality Low-Delay Remote Rendering System for 3D Video

Shu Shi, University of Illinois at Urbana-Champaign
Mahsa Kamali, University of Illinois at Urbana-Champaign
Klara Nahrstedt, University of Illinois at Urbana-Champaign
John Hart, University of Illinois at Urbana-Champaign
Roy Campbell, University of Illinois at Urbana-Champaign

ORAL SESSION

FULL F13

Applications / Human-centered multimedia

Narrowing the experience gap

Session Chair:

Abed El Saddik, University of Ottawa, CA

Dynamic Captioning: Video Accessibility Enhancement for Hearing Impairment

Richang Hong, School of Computing, National University of Singapore
Meng Wang, School of Computing, National University of Singapore
Mengdi Xu, Dept. of ECE, National University of Singapore
Shuicheng Yan, Dept. of ECE, National University of Singapore
Tat-Seng Chua, School of Computing, National University of Singapore

The Third Eye: Mining the Visual Cognition across Multi-language Communities

Chunxi Liu, Graduate University of Chinese Academy of Sciences
Qingming Huang, Graduate University of Chinese Academy of Sciences
Shuqiang Jiang, Institution of Computing Technology, Chinese Academy of Sciences
Changsheng Xu, Institute of Automation, Chinese Academy of Sciences

Green Multimedia: Informing People of their Carbon Footprint through Two Simple Sensors

Aiden Doherty, Dublin City University
Zhengwei Ziu, Dublin City University

Colum Foley, Dublin City University
Hyowon Lee, Dublin City University
Cathal Gurrin, Dublin City University
Alan Smeaton, Dublin City University

Bridging Low-level Features and High-level Semantics via fMRI Brain Imaging for Video Classification

Xintao Hu, Northwestern Polytechnical University
Fan Deng, the University of Georgia
Kaiming Li, Northwestern Polytechnical University
Tuo Zhang, Northwestern Polytechnical University
Hanbo Chen, Northwestern Polytechnical University
Xi Jiang, Northwestern Polytechnical University
Jinglei Lv, Northwestern Polytechnical University
Dajiang Zhu, the University of Georgia
Carlos Faraco, the University of Georgia
Degang Zhang, Northwestern Polytechnical University
Arsham Mesbah, the University of Georgia
Junwei Han, Northwestern Polytechnical University
Xiansheng Hua, Microsoft Research Asia
Li Xie, Zhejiang University
Stephen Miller, the University of Georgia
Lei Guo, Northwestern Polytechnical University
Tianming Liu, the University of Georgia

EXHIBIT SESSION

INDUSTRIAL EXHIBIT IE1

Exhibit

Session Chairs:

Berna Erol, RICOH Corp., USA
Qi Tian, University of Texas at San Antonio, USA
Yiannis (Ioannis) Kompatsiaris, Centre for Research and Technology Hellas, GR

Virtual Environment for Surprises

Lara Oliveti, Melazeta Srl
Marcella Albiero, Melazeta Srl
Paolo Giordano, Melazeta Srl

RAPID: A Reliable Protocol for Improving Delay

Sanjeev Mehrotra, Microsoft Research
Jin Li, Microsoft Research
Cheng Huang, Microsoft Research

A Location Based Reminder System for Advertisement

Yiqun Li, Institute for Infocomm Research
Aiyuan Guo, Institute for Infocomm Research
Siying Liu, Institute for Infocomm Research
Yan Gao, Institute for Infocomm Research
Yan-Tao Zheng, Institute for Infocomm Research

Embedded Media Marker: Linking Multimedia to Paper

Qiong Liu, FX Palo Alto Laboratory
Chunyuan Liao, FX Palo Alto Laboratory
Lynn Wilcox, FX Palo Alto Laboratory
Anthony Dunnigan, FX Palo Alto Laboratory
Bee Liew, FX Palo Alto Laboratory

The Virtual Chocolate Factory: Mixed Reality Industrial Collaboration and Control

Maribeth Back, FX Palo Alto Laboratory
Don Kimber, FX Palo Alto Laboratory
Eleanor Rieffel, FX Palo Alto Laboratory
Anthony Dunnigan, FX Palo Alto Laboratory
Bee Liew, FX Palo Alto Laboratory
Sagar Gattepally, FX Palo Alto Laboratory
Jonathan Foote, FX Palo Alto Laboratory
Jun Shingu, FX Palo Alto Laboratory
James Vaughan, FX Palo Alto Laboratory

TalkMiner: A Search Engine for Online Lecture Video

John Adcock, FX Palo Alto Laboratory
Matthew Cooper, FX Palo Alto Laboratory
Laurent Denoue, FX Palo Alto Laboratory
Hamed Pirsiavash, University of California, Irvine
Lawrence Rowe, FX Palo Alto Laboratory

Multi-Sensor Fusion for Interactive Visual Computing in Mixed Environment
Peng Wang, Intel Labs China

Uffizi Touch@
Marco Cappellini, Centrica

Social Recommendation and Visual Analysis on the TV
Cathal Gurrin, Dublin City University
Hyowon Lee, Dublin City University
Paul Ferguson, Dublin City University
Alan Smeaton, Dublin City University
Noel O'Connor, Dublin City University
Yoonhee Choi, Samsung Electronics
Heeseon Park, Media S/W Platform Lab

Multimedia Security Technologies for Movie Protection
Michael Arnold, Technicolor
S  verine Baudry, Technicolor
Peter Baum, Technicolor
Xiao-Ming Chen, Technicolor
Bertrand Chupeau, Technicolor
Olivier Courtay, Technicolor
Gwena  l Do  rr, Technicolor
Ulrich Gries, Technicolor
Fr  d  ric Lefebvre, Technicolor
Michel Morvan, Technicolor
Antoine Robert, Technicolor
Charles Salmon-Legagneur, Technicolor
Christophe Vincent, Technicolor
Mario de Vito, Technicolor

Efficient and Robust Near-Duplicate Detection in Large and Growing Image Data-Sets
Thomas P  nitz, CogVis Ltd.
Julian St  ttinger, Vienna Technical University

File-Based Media Workflows using LTFS Tapes
Arnon Amir, IBM Research
David Pease, IBM Research
Rainer Richter, IBM Research
Brian Biskeborn, IBM Research
Michael Richmond, IBM Research
Lucas Villa Real, IBM Research

PopApp: the First 3d POPular APPLICATION for Non-linear Presentations
Claudio Mazzanti, Loop srl

Large Scale Partially Duplicated Web Image Retrieval
Wengang Zhou, University of Science and Technology of China
Yijuan Lu, Texas State University at San Marcos
Houqiang Li, University of Science and Technology of China
Yibing Song, University of Science and Technology of China
Qi Tian, University of Texas at San Antonio

Visual search applications for connecting published works to digital material
Jamey Graham, Ricoh Innovations, Inc.
Jorge Moraleda, Ricoh Innovations, Inc.
Jonathan Hull, Ricoh Innovations, Inc.
Timothee Bailloeuil, Ricoh Innovations, Inc.
Xu Liu, Ricoh Innovations, Inc.
Andrea Mariotta, Ricoh Innovations, Inc.

SCOTT: Set Cover Tracing Technology
Dulce Ponceleon, IBM Almaden Research Center

Jeff Lostpiech, IBM Almaden Research Center
Hongxia Jin, IBM Almaden Research Center
Eric Wilcox, IBM Almaden Research Center

Physical Hyperlinks For Citizen Interaction

Dustin Haisler, City of Manor
Phil Tate, City of Manor

Mobile Document Scanning and Copying

Jian Fan, Hewlett-Packard Labs
Qian Lin, Hewlett-Packard Labs
Jerry Liu, Hewlett-Packard Labs

Data-driven behavioural algorithms for online advertising

Antonio Tomarchio, Dada spa
Francesco Bellacci, Dada spa
Filippo Privitera, Dada spa

POSTER SESSION

SHORT IA3

Chair:

Sethuraman Panchanathan, Arizona State University, USA

Building with a Memory: Responsive Color Interventions

Andreea Danielescu, Arizona State University
Ryan Spicer, Arizona State University
David Tinapple, Arizona State University
Aisling Kelliher, Arizona State University
Ellen Campana, Arizona State University

The Rumentarium Project

Andrea Valle, University of Torino

Alan01 – Slivers of Color, Media and a Soul

Mika Tuomola, Aalto University School of Art and Design
Teemu Korpilahti, Aalto University School of Art and Design
Jaakko Pesonen, Aalto University School of Art and Design

Encounter (Resonances)

Hayley Hung, University of Amsterdam
Christian Jacquemin, LIMSI-CNRS & University of Paris 11

Thrii

Nicole Lehrer, Arizona State University
Stjepan Rajko, Arizona State University
Diana Siwiak, Arizona State University
David Tinapple, Arizona State University
Isaac Wallis, Arizona State University
Tatyana Koziupa, Arizona State University
Meng Chen, Arizona State University
Michael Baran, Arizona State University
Assegid Kidane, Arizona State University
David Lorig, Arizona State University
Loren Olson, Arizona State University

HUM, an Interactive and Collaborative Art Installation

Jean-Julien Filatriau, Université catholique de Louvain
François Zajéga, Artist

Coming Together – Composition by Negotiation

Arne Eigenfeldt, Simon Fraser University

RTiVISS | Real-Time Video Interactive Systems for Sustainability

Mónica Mendes, Universidade de Lisboa
Nuno Correia, Universidade Nova de Lisboa

Chroma Space: Affective Colors in Interactive 3D World

Wendy Ann Mansilla, Norwegian University of Science and Technology (NTNU)
Jordi Puig, Norwegian University of Science and Technology (NTNU)
Andrew Perkis, Norwegian University of Science and Technology (NTNU)

Touradj Ebrahimi, Norwegian University of Science and Technology (NTNU)

An Interactive Multimedia Framework for Digital Heritage Narratives

Neeharika Adabala, Microsoft Research India
Naren Datha, Microsoft Research India
Joseph Joy, Microsoft Research India
Chinmay Kulkarni, Microsoft Research India
Ajay Manchepalli, Microsoft Research India
Aditya Sankar, University of Washington
Rebecca Walton, University of Washington

Natural Interaction for Cultural Heritage: the Archaeological Site of Shawbak

Thomas Alisi, University of Firenze, Italy
Gianpaolo D'Amico, University of Firenze, Italy
Andrea Ferracani, University of Firenze, Italy
Lea Landucci, University of Firenze, Italy
Nicola Torpei, University of Firenze, Italy

Yongzheng Emperor's Interactive Tabletop: Seamless Multimedia System in a Museum Context

Chun-Ko Hsieh, Graduate Institute of Networking and Multimedia, National Taiwan University
I-Ling Liu, Department of Education, Exhibition and Information Services, National Palace Museum
Neng-Hao Yu, Graduate Institute of Networking and Multimedia, National Taiwan University
Yueh-Hsuan Chiang, Graduate Institute of Networking and Multimedia, National Taiwan University
Hsiang-Tao Wu, Graduate Institute of Networking and Multimedia, National Taiwan University
Ying-Jui Chen, Graduate Institute of Networking and Multimedia, National Taiwan University
Yi-Ping Hung, Graduate Institute of Networking and Multimedia, National Taiwan University, Taiwan

afternoon

DISCUSSION ROOM DR1

Chairs:

Ramesh Jain, University of California at Irvine, USA
Forouzan Golshani, California State University at Long Beach, USA

Free discussions from Tweets

ORAL SESSION

FULL F14

Applications / Content

Detection of near-duplicate content

Session Chair:

Alan Hanjalic, Delft University, NL

Building Contextual Visual Vocabulary for Large-scale Image Applications

Shiliang Zhang, Key Lab of Intelligent Information Processing, Institute of Computing Technology, Chinese Academy of Sciences
Qingming Huang, Graduate University of Chinese Academy of Sciences
Gang Hua, IBM Research T. J. Watson Center
Shuqiang Jiang, Key Lab of Intelligent Information Processing, Institute of Computing Technology, Chinese Academy of Sciences
Wen Gao, Institute of Digital Multimedia, Peking University
Qi Tian, Computer Science Depart., University of Texas at San Antonio

Spatial Coding for Large Scale Partial-Duplicate Web Image Search

Wengang Zhou, University of Science and Technology of China
Yijuan Lu, Texas State University at San Marcos
Houqiang Li, University of Science and Technology of China
Yibing Song, University of Science and Technology of China
Qi Tian, University of Texas at San Antonio

Monitoring Near Duplicates Over Video Streams

Xiangmin Zhou, CSIRO
Lei Chen, Hong Kong University of Science and Technology

Real-time Large Scale Near-duplicate Web Video Retrieval

Lifeng Shang, The University of Hong Kong
Linjun Yang, Microsoft Research Asia
Fei Wang, Microsoft Search Technology Center
Kwok-Ping Chan, The University of Hong Kong

Xian-Sheng Hua, Microsoft Research Asia

ORAL SESSION

FULL F15

Applications / Human-centered multimedia

Automatic generation of media content

Session Chair:

Mohamed M. Hefeeda, Simon Fraser University, CA

Automatic Mashup Generation from Multiple-camera Concert Recordings

Prarthana Shrestha, Eindhoven University of Technology

Peter de With, Eindhoven University of Technology

Hans Weda, Philips Research Europe

Mauro Barbieri, Philips Research Europe

Emile Aarts, Philips Research Europe

Toward an Automatically Generated Soundtrack from Low-level Cross-modal Correlations for Automotive Scenarios

Marco Cristani, University of Verona

Anna Pesarin, University of Verona

Carlo Drioli, University of Verona

Vittorio Murino, University of Verona

Antonio Rodà, University of Udine

Michele Grapulin, University of Verona

Nicu Sebe, University of Trento

Supporting Personal Photo Storytelling for Social Albums

Pere Obrador, Telefonica Research

Rodrigo de Oliveira, Telefonica Research

Nuria Oliver, Telefonica Research

Multimedia Content Creation using Societal-Scale Ubiquitous Camera Networks and Human-Centric Wearable Sensing

Mathew Laibowitz, MIT Media Lab

Nan-wei Gong, MIT Media Lab

Joseph Paradiso, MIT Media Lab

OPEN SOURCE SOFTWARE COMPETITION

Session Chairs:

Nicu Sebe, University of Trento, I

Marco Bertini, University of Firenze, I

openSMILE – The Munich Versatile and Fast Open-Source Audio Feature Extractor

Florian Eyben, Technische Universitaet Muenchen, Institute for Human-Machine Communication

Martin Woellmer, Technische Universitaet Muenchen, Institute for Human-Machine Communication

Bjoern Schuller, Technische Universitaet Muenchen, Institute for Human-Machine Communication

Open SVC Decoder: a Flexible SVC Library

Médéric Blestel, IETR/INSA

Mickaël Raulet, IETR/INSA

Sonic Visualiser: An Open Source Application for Viewing, Analysing, and Annotating Music Audio Files

Chris Cannam, Queen Mary University of London

Christian Landone, Queen Mary University of London

Mark Sandler, Queen Mary University of London

VLFeat

Andrea Vedaldi, University of Oxford

Brian Fulkerson, University of California at Los Angeles

TOP-SURF: A Visual Words Toolkit

Bart Thomee, LIACS Media Lab, Leiden University

Erwin Bakker, LIACS Media Lab, Leiden University

Michael Lew, LIACS Media Lab, Leiden University

FALCON: FAsT Lucene-based Cover sOng identification

Emanuele Di Buccio, University of Padova

Nicola Montecchio, University of Padova

Nicola Orio, University of Padova

The Python Computer Vision Framework

Bertrand NOUVEL, Japanese French Laboratory for Informatics – LIA CNRS

Shin'Ichi SATOH, National Institute of Informatics

Torchvision the machine-vision package of Torch
Sebastien Marcel, Idiap Research Institute
Yann Rodriguez, Idiap Research Institute

The openIP Open Source Image Processing Library
György Kovács, University of Debrecen
Janos Ivan, University of Debrecen
Arpad Panyik, University of Debrecen
Attila Fazekas, University of Debrecen

An Open-Source SIFT Library
Rob Hess, Oregon State University

OPEN WORKSHOP

Interactive MM Computing for Creativity and Expression
Workshop Chair:
Andruid Kerne, Texas A&M University, USA

POSTER SESSION

SHORT S6

Applications / Content
Session Chair:

Wei Tsang Ooi, University of Singapore, SG

Multimedia Cross-Platform Content Distribution for Mobile Peer-to-Peer Networks using Network Coding
Morten Pedersen, Aalborg University
Janus Heide, Aalborg University
Péter Vingelmann, Budapest University of Technology and Economics
Laszlo Blazovics, Budapest University of Technology and Economics
Frank Fitzek, Aalborg University

Topical Summarization of Web Videos by Visual-Text Time-Dependent Alignment
Song Tan, City University of Hong Kong
Hung-Khoon Tan, City University of Hong Kong
Chong-Wah Ngo, City University of Hong Kong

Improved Saliency Detection Based on Superpixel Clustering and Saliency Propagation
Zhixiang Ren, Nanyang Technological University
Yiqun Hu, Nanyang Technological University
Liang-Tien Chia, Nanyang Technological University
Deepu Rajan, Nanyang Technological University

Refining Video Annotation by Exploiting Inter-Shot Context
Jian Yi, Institute of Computer Science and Technology, Peking University, Beijing 100871, China
Yuxin Peng, Institute of Computer Science and Technology, Peking University, Beijing 100871, China
Jianguo Xiao, Institute of Computer Science and Technology, Peking University, Beijing 100871, China

Web Video Categorization based on Wikipedia Categories and Content-Duplicated Open Resources
Zhineng Chen, Institute of Computing Technology, Chinese Academy of Sciences
Juan Cao, Institute of Computing Technology, Chinese Academy of Sciences
Yicheng Song, 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

Supporting Children's Social Communication Skills through Interactive Narratives with Virtual Characters
Mary Ellen Foster, Heriot-Watt University
Katerina Avramides, Institute of Education
Sara Bernardini, Institute of Education
Jingying Chen, University of Edinburgh
Christopher Frauenberger, University of Sussex
Oliver Lemon, Heriot-Watt University
Kaska Porayska-Pomsta, London Knowledge Lab

Automatic Image Tagging via Category Label and Web Data
Shenghua Gao, School of Computer Engineering, Nanyang Technological University
Zhengxiang Wang, School of Computer Engineering, Nanyang Technological University
Liang-Tien Chia, School of Computer Engineering, Nanyang Technological University

Ivor Wai-Hung Tsang, School of Computer Engineering, Nanyang Technological University

Auto-tagging of Images in Non-English Languages Using Tag Language Conversion

Keiichiro Hoashi, KDDI R&D Laboratories Inc.
Hiromi Ishizaki, KDDI R&D Laboratories Inc.
Hjalmar Wennerstrom, Uppsala University
Yasuhiro Takishima, KDDI R&D Laboratories Inc.

Landmark Image Retrieval Using Visual Synonyms

Efstratios Gavves, University of Amsterdam
Cees Snoek, University of Amsterdam

Approximate Image Color Correlograms

Claudio Taranto, University of Bari "Aldo Moro"
Nicola Di Mauro, University of Bari "Aldo Moro"
Stefano Ferilli, University of Bari "Aldo Moro"
Floriana Esposito, University of Bari "Aldo Moro"

Data-Oriented Locality Sensitive Hashing

Wei Zhang, Institute of Computing Technology, Chinese Academy of Sciences
Ke Gao, Institute of Computing Technology, Chinese Academy of Sciences
Yong-dong Zhang, Institute of Computing Technology, Chinese Academy of Sciences
Jin-tao Li, Institute of Computing Technology, Chinese Academy of Sciences

Automatically Protecting Privacy in Consumer Generated Videos Using Intended Human Object Detector

Yuta Nakashima, Graduate School of Engineering, Osaka University
Noboru Babaguchi, Graduate School of Engineering, Osaka University
Jianping Fan, UNC-Charlotte

Non-parametric Anomaly Detection Exploiting Space-time Features

Lorenzo Seidenari, University of Firenze
Marco Bertini, University of Firenze

A Scalable Cover Identification Engine

Emanuele Di Buccio, University of Padova
Nicola Montecchio, University of Padova
Nicola Orio, University of Padova

Interactive Visual Object Search through Mutual Information Maximization

Jingjing Meng, Motorola, Inc. / Nanyang Technological University
Junsong Yuan, Nanyang Technological University
Yuning Jiang, Nanyang Technological University
Nitya Narasimhan, Motorola, Inc.
Venu Vasudevan, Motorola, Inc.
Ying Wu, Northwestern University

Nearest-Neighbor Classification Using Unlabeled Data for Real World Image Application

Shuhui Wang, Institute of Computing Technology, Chinese Academy of Sciences
Qingming Huang, Graduate University, Chinese Academy of Sciences
Shuqiang Jiang, Institute of Computing Technology, Chinese Academy of Sciences
Qi Tian, University of Texas at San Antonio

Behavior and Properties of Spatio-temporal Local Features under Visual Transformations

Julian Stöttinger, Vienna University of Technology
Bogdan Goras, Technical University of Iasi
Nicu Sebe, University of Trento
Allan Hanbury, Information Retrieval Facility

Boosting-based Multiple Kernel Learning for Image Re-ranking

I-Hong Jhuo, National Taiwan University
D.T. Lee, National Taiwan University

ORAL SESSION

FULL F16

Applications / Content / Human-centered multimedia
Processing of social media

Session Chair:

Jiebo Luo, Kodak Research Lab, USA

Image Tag Refinement Towards Low-Rank, Content-Tag Prior and Error Sparsity

Guangyu Zhu, National University of Singapore
Shuicheng Yan, National University of Singapore
Yi Ma, University of Illinois at Urbana-Champaign

Quantifying Tag Representativeness of Visual Content of Social Images

Aixin Sun, Nanyang Technological University
Sourav Bhowmick, Nanyang Technological University

Social Pixels: Genesis and Evaluation

Vivek Singh, University of California
Mingyan Gao, University of California
Ramesh Jain, University of California

Image Retagging

Dong Liu, Harbin Institute of Technology
Xian-Sheng Hua, Microsoft Research Asia
Meng Wang, Microsoft Research Asia
Hong-Jiang Zhang, Microsoft Advanced Technology Center

BRAVE NEW IDEAS BNI2

Session Chair:

Alejandro Jaimes, Yahoo! Research, E

Human Animal Machine Interaction: Animal Behavior Awareness and Digital Experience

Karin Fahlgvist, Digital Media Lab., Department of Applied Physics and Electronics, Umeå University Sweden
Johannes Karlsson, Digital Media Lab., Department of Applied Physics and Electronics, Umeå University Sweden
Haibo Li, Digital Media Lab., Department of Applied Physics and Electronics, Umeå University Sweden
Li Liu, Digital Media Lab., Department of Applied Physics and Electronics, Umeå University Sweden
Keni Ren, Digital Media Lab., Department of Applied Physics and Electronics, Umeå University Sweden
Shafiq ur Rehman, Digital Media Lab., Department of Applied Physics and Electronics, Umeå University Sweden
Tim Wark, Autonomous Systems Laboratory, CSIRO ICT Centre, Pullenvale QLD 4069 Brisbane, Australia.

Enriching Social Situational Awareness in Remote Interactions

Sreekar Krishna, Arizona State University
Vineeth Balasubramanian, Arizona State University
Sethuraman Panchanathan, Arizona State University

Requirements and Design Space for Interactive Public Displays

Jörg Müller, Deutsche Telekom Laboratories, TU Berlin
Florian Alt, University of Duisburg-Essen
Daniel Michelis, Anhalt University of Applied Sciences
Albrecht Schmidt, University of Duisburg-Essen

POSTER SESSION

SHORT S7

Content / Systems

Session Chair:

Pascal Frossard, EPFL, CH

Multi-Layer Stereo Video Matting

M. Jiang, Loughborough University
Danny Crookes, Queen's University Belfast
Min Chen, University of Wales, Swansea

GPU Acceleration of Eff² Descriptors using CUDA

Kristleifur Daðason, Videntifier Technologies ehf.
Herwig Lejsek, Videntifier Technologies ehf.
Ársæll Jóhannsson, Videntifier Technologies ehf.
Björn Jónsson, Reykjavik University
Laurent Amsaleg, CNRS-IRISA

Dynamic Multi-cue Tracking with Detection Responses Association

Guochen Jia, Peking University
Yonghong Tian, Peking University
Yaowei Wang, Beijing Institute of Technology
Tiejun Huang, Peking University
Min Wang, Peking University

KPB-SIFT: A Compact Local Feature Descriptor

Gangqiang Zhao, Zhejiang University
Ling Chen, Zhejiang University
Gencai Chen, Zhejiang University
Junsong Yuan, Nanyang Technological University

Fast Feature Selection and Training for AdaBoost-based Concept Detection with Large Scale DataSets

Shi Chen, National Lab of Pattern Recognition, Institute of Automation, CAS
Jinqiao Wang, National Lab of Pattern Recognition, Institute of Automation, CAS
Yang Liu, National Lab of Pattern Recognition, Institute of Automation, CAS
Changsheng Xu, National Lab of Pattern Recognition, Institute of Automation, CAS
Hanqing Lu, National Lab of Pattern Recognition, Institute of Automation, CAS

Large-scale Robust Visual Codebook Construction

Darui Li, University of Science and Technology of China
Linjun Yang, Microsoft Research Asia
Xian-Sheng Hua, Microsoft Research Asia
Hong-Jiang Zhang, Microsoft Advanced Technology Center

Image Annotation Using Multi-Correlation Probabilistic Matrix Factorization

Zechao Li, Institute of Automation, Chinese Academy of Sciences
Jing Liu, Institute of Automation, Chinese Academy of Sciences
Xiaobin Zhu, Institute of Automation, Chinese Academy of Sciences
Tinglin Liu, Institute of Automation, Chinese Academy of Sciences
Hanqing Lu, Institute of Automation, Chinese Academy of Sciences

Interactive Panoramic Video Streaming System over Restricted Bandwidth Network

Masayuki Inoue, NTT
Hideaki Kimata, NTT
Katsuhiko Fukazawa, NTT
Norihiko Matsuura, NTT

Understanding the Security and Robustness of SIFT

Thanh-Toan Do, Université de Rennes 1
Ewa Kijak, Université de Rennes 1
Teddy Furon, Inria Rennes Bretagne Atlantique
Laurent Amsaleg, CNRS

Implementation and Demonstration of a Credit-based Home Access Point

Choong-Soo Lee, Gustavus Adolphus College
Mark Claypool, Worcester Polytechnic Institute
Robert Kinicki, Worcester Polytechnic Institute

Spatially Refined Inter-Sequence Error Concealment for a Multi-Broadcast Receiver Using Frequency Selective Approximation

Tobias Trüger, University of Erlangen-Nuremberg
Jürgen Seiler, University of Erlangen-Nuremberg
André Kaup, University of Erlangen-Nuremberg

Performance Improvement of Distributed Video Coding by Using Block Mode Selection

Bo-Ruei Chiou, National Taiwan University
Yun-Chung Shen, National Taiwan University
Han-Ping Cheng, National Taiwan University
Ja-Ling Wu, National Taiwan University

Fast Decoding for LDPC Based Distributed Video Coding

Yu-Shan Pai, Department of Computer Science and Information Engineering, National Taiwan University
Han-Ping Cheng, Department of Computer Science and Information Engineering, National Taiwan University
Yun-Chung Shen, Graduate Institute of Networking and Multimedia, National Taiwan University
Ja-Ling Wu, Graduate Institute of Networking and Multimedia, National Taiwan University

Shape-Stable Region Boundary Extraction via Affine Morphological Scale Space (AMSS)

Petros Kapsalas, Laboratory of Digital Image Processing & Multimedia Analysis
Stefanos Kollias, Laboratory of Digital Image Processing & Multimedia Analysis

Robust Digital Watermarking in Videos Based on Geometric Transformations

Philipp Schaber, University of Mannheim
Stephan Kopf, University of Mannheim
Fabian Bauer, University of Mannheim
Wolfgang Effelsberg, University of Mannheim

Joint Layered Video and Digital Fountain Coding for Multi-Channel Video Broadcasting

Wen Ji, Hong Kong Polytechnic University

Zhu Li, Hong Kong Polytechnic University

A Novel P2P and Cloud Computing Hybrid Architecture for Multimedia Streaming with QoS Cost Functions

Irena Trajkovska, ETSIT UPM Spain

Joaquin Salvachua Rodriguez, ETSIT UPM Spain

Alberto Mozo Velasco, EUI UPM Spain

Hybrid Load Balancing for Online Games

Rynson Lau, City University of Hong Kong

ACM Multimedia Special Sessions Outline

Discussion Room is an experiment for making ACM Multimedia 2010 conference even more interactive and stimulate free interactivity also beyond the traditional Speaker-Attendees scheme. We have imagined that it will include a few talks taken from the Barve New Ideas program and host other free subjects of discussion that are posted by the attendees. To improve discussion we will introduce the possibility of having tweets during the conference sessions, display these tweets in the Discussion Room and let the Session Chair look at them, select the most interesting ones..... We will check the opportunity to involve a much larger group, beyond the attendees of the conference

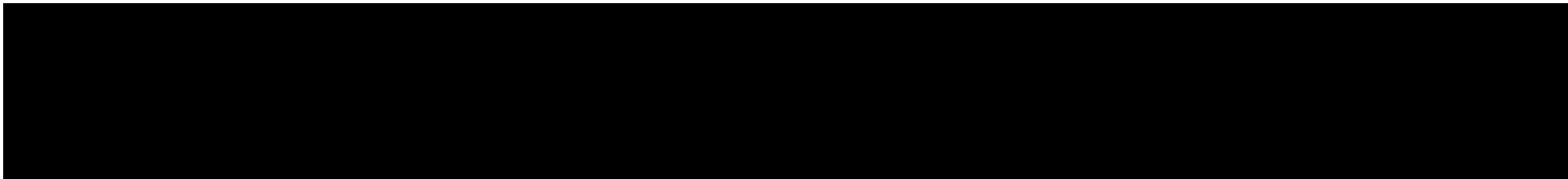
Multimedia Grand Challenge. What problems do Google, Yahoo!, HP, Radvision, CeWe, Nokia and other companies see driving the future of multimedia? The Multimedia Grand Challenge is a set of problems and issues from these industry leaders, geared to engage the Multimedia research community towards solving relevant, interesting and challenging questions in the multimedia industry's 2-5 year horizon. Finalists of this competition have been invited to describe their work, demonstrate their solution in the Grand Challenge Session at ACM Multimedia 2010. Final winners will be chosen by industry scientists, engineers and business luminaries.

Interactive Multimedia Computing for Creativity and Expression Workshop. The priority of the workshop at ACM Multimedia 2010 is to raise issues about modalities and opportunities for collaboration between artists and scientists. It is organized as a working session where participants are invited to create small groups where to think about each other's skill sets and methods for forming research, and define art-science collaboration projects. Each group member should represent his/her research in the collaboration, address issues of conceptualization and objectives, commonalities of methodologies, and their integration, as well as disparities among methodologies, and how these can be bridged or co-exist address scientific and artistic intellectual merit and impact. A report of each group's plan is expected to an imagined funding agency or set of funding agencies. Short presentations of the reports to the public will be hence accommodated, with a plenary discussion about what was learned, what is interesting.

Open Source Software Competition. The Open-Source Software Competition is an important integral part of the ACM Multimedia program. The ACM Multimedia 2010 Open-Source Software Competition is the seventh running competition. It is mainly intended to celebrate and encourage the contribution of researchers and software developers to advance the field by providing the community with implementations of codecs, middleware, frameworks, toolkits, libraries, applications, and other multimedia software. The finalist authors will demonstrate their software in the Open Source Software Competition session of ACM Multimedia 2010. Final winners will be chosen by industry and research scientists and engineers.

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Main Conference Full Paper Program (accepted papers)

Content

PAPER ID	TITLE	AUTHORS
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1569304657	Building Contextual Visual Vocabulary for Large-scale Image Applications	Shiliang Zhang; Qingming Huang; Gang Hua; Shuqiang Jiang; Wen Gao; Qi Tian
1569305065	Image Tag Refinement Towards Low-Rank, Content-Tag Prior and Error Sparsity	Guangyu Zhu; Shuicheng Yan; Yi Ma
1569305163	Leveraging Loosely-Tagged Images and Inter-Object Correlations for Tag Recommendation	Yi Shen; Jianping Fan
1569305201	Multi-label Boosting for Image Annotation by Structural Grouping Sparsity	Fei Wu; Yahong Han; Qi Tian; Yueting Zhuang
1569305229	Unified Tag Analysis with Multi-Edge Graph	Dong Liu; Shuicheng Yan; Yong Rui; Hong-Jiang Zhang
1569305239	Efficient Large-Scale Image Annotation by Probabilistic Collaborative Multi-Label Propagation	Xiangyu Chen; Yadong Mu; Shuicheng Yan; Tat-Seng Chua
1569305259	CO3 for Ultra-fast and Accurate Interactive Segmentation	Yibiao Zhao; Song Chun Zhu; Siwei Luo
1569305393	Music Recommendation by Unified Hypergraph: Combining Social Information and Music Content	Jiajun Bu; Shulong Tan; Chun Chen; Can Wang; Hao Wu; Lijun Zhang; Cheng Zhang
1569305613	A Generic Framework for Event Detection in Various Video Domains	Tianzhu Zhang; Changsheng Xu; Guangyu Zhu; Si Liu; Hanqing Lu

Sponsors



Social



ACM Multimedia 2010 Twitter

1569305759	Large-scale Music Tag Recommendation with Explicit Multiple Attributes	Zhendong Zhao; Xinxi Wang; Qiaoliang Xiang; Andy Sarroff; Zhonghua Li; Ye Wang
1569305797	S3MKL: Scalable Semi-supervised Multiple Kernel Learning for Image Data Mining	Shuhui Wang; Shuqiang Jiang; Qingming Huang; Qi Tian
1569305799	Monitoring Near Duplicates Over Video Streams	Xiangmin Zhou; Lei Chen
1569305837	Discriminative Codeword Selection for Image Representation	Lijun Zhang; Chun Chen; Jiajun Bu; Zhengguang Chen; Shulong Tan; Xiaofei He
1569305883	Image Segmentation with Patch-Pair Density Priors	Xiaobai Liu; Jiashi Feng; Shuicheng Yan; Hai Jin
1569305929	Quantifying Tag Representativeness of Visual Content of Social Images	Aixin Sun; Sourav Bhowmick
1569306047	Feature Map Hashing: Sub-linear Indexing of Appearance and Global Geometry	Yannis Avrithis; Giorgos Tolias; Yannis Kalantidis
1569306103	Real-Time Large Scale Near-Duplicate Video Retrieval	Lifeng Shang; Linjun Yang; Fei Wang; Kwok-Ping Chan; Xian-Sheng Hua
1569306133	Supervised Reranking for Web Image Search	Linjun Yang; Alan Hanjalic
1569306467	Retrieving Landmark and Non-Landmark Images from Community Photo Collections	Yannis Avrithis; Yannis Kalantidis; Giorgos Tolias; Evaggelos Spyrou
1569307205	A New Approach To Cross-Modal Multimedia Retrieval	Nikhil Rasiwasia; Nuno Vasconcelos; Jose Costa Pereira; Gert Lanckriet; Roger Levy; Emanuele Coviello; Gabriel Doyle

Systems

PAPER ID	TITLE	AUTHORS
1569304545	Ink Jet Olfactory Display Enabling Instantaneous Switches of Scents	Sayumi Sugimoto; Daisuke Noguchi; Yuichi Bannai; Kenichi Okada
1569305417	A Cognitive Approach for Effective Coding and Transmission of 3D Video	Simone Milani; Giancarlo Calvagno
1569305413	Tenor: Making Coding Practical from Servers to Smartphones	Hassan Shojania; Baochun Li
1569305925	Improving Online Gaming Quality using Detour Paths	Cong Ly; Mohamed Hefeeda; Cheng-Hsin Hsu
1569305939	Modeling 3D Motion Data Using Geometry Video	Ying He; Jiazhi Xia; Dao Quynh; Xiaoming Chen; Steven Chu-Hong Hoi
1569306019	High-Quality Zero-Delay Remote Rendering System for 3D Video	Shu Shi; Mahsa Kamali; Klara Nahrstedt; John Hart; Roy Campbell
1569306177	Webcams in Context: Web Interfaces to Create Live 3D Environments	Austin Abrams; Robert Pless
	Subjective evaluation of scalable	Jong-Seok Lee; Francesca De Simone; Naeem Ramzan; Zhijie

1569306673	video coding for content distribution	Zhao; Engin Kurutepe; Thomas Sikora; Joern Ostermann; Ebroul Izquierdo
1569307893	Self-Diagnostic Peer-Assisted Video Streaming through a Learning Framework	Di Niu; Baochun Li; Shuqiao Zhao

Human-centered

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1569302725	Toward an Automatically Generated Soundtrack from Low-level Cross-modal Correlations for Automotive Scenarios	Marco Cristani; Anna Pesarin; Carlo Drioli; Vittorio Murino; Antonio Rodà; Michele Grapulin; Nicu Sebe
1569304799	e-Fovea: A Multi-Resolution Approach with Steerable Focus to Large-Scale and High-Resolution Monitoring	Kuan-Wen Chen; Chihwei Lin; Mike Chen; Yi-Ping Hung
1569305067	Dynamic Captioning: Video Accessibility Enhancement for Hearing Impairment	Richang Hong; Meng Wang; Mengdi Xu; Shuicheng Yan; Tat-Seng Chua
1569305187	Impact of Zooming and Enhancing Region of Interests for Optimizing User Experience on Mobile Sports Video	Wei Song; Dian Tjondronegoro; Shu-Hsien Wang; Michael Docherty
1569305419	Towards More Efficient User Interfaces for Mobile Video Browsing: An In-Depth Exploration of the Design Space	Jochen Huber; Jürgen Steimle; Max Mühlhäuser
1569305505	Error-Resilient Perceptual Coding for Networked Haptic Interaction	Fernanda Brandi; Julius Kammerl; Eckehard Steinbach
1569305819	Supporting Personal Photo Storytelling for Social Albums	Pere Obrador; Rodrigo de Oliveira; Nuria Oliver
1569306119	Social Pixels: Genesis and Evaluation	Vivek Singh; Mingyan Gao; Ramesh Jain
1569306599	Bridging Low-level Features and High-level Semantics via fMRI Brain Imaging for Video Classification	Xintao Hu; Fan Deng; Kaiming Li; Tuo Zhang; Hanbo Chen; Xi Jiang; Jinglei Lv; Dajiang Zhu
1569306805	Multimedia Content Creation using Societal-Scale Ubiquitous Camera Networks and Human-Centric Wearable Sensing	Mathew Laibowitz; Nan-Wei Gong; Joseph Paradiso
1569306931	Personalized Photo Ranking and Selection System	Che-Hua Yeh; Yuan-Chen Ho; Brian Barsky; Ming Ouhyoung
1569307201	FACT: Fine-grained Cross-media Interaction with Documents via a Portable Hybrid Paper-Laptop Interface	Chunyuan Liao; Hao Tang; Qiong Liu; Patrick Chiu; Francine Chen
1569307235	An Immersive System for Browsing and Visualizing Surveillance Video	Philip Decamp

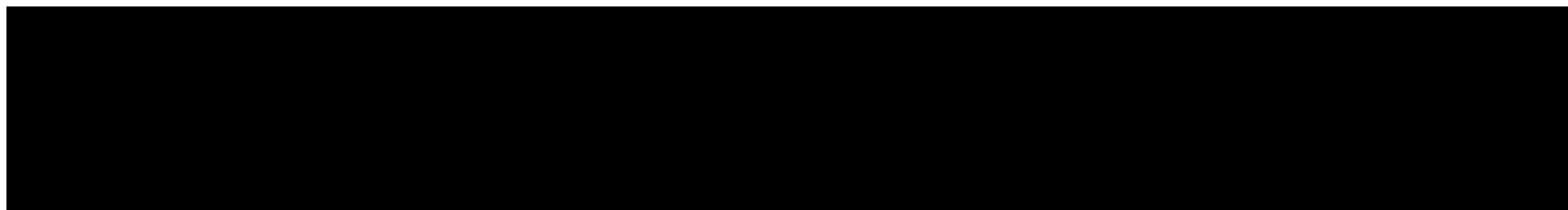
Applications

PAPER ID	TITLE	AUTHORS
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1569295235	Automatic Mashup Generation from Multiple-camera Concert Recordings	Prarthana Shrestha; Peter de With; Hans Weda; Mauro Barbieri; Emile Aarts
1569300165	W2Go: A Travel Guidance System by Automatic Landmark Ranking	Yue Gao; Jinhui Tang; Richang Hong; Qionghai Dai; Tat-Seng Chua; Ramesh Jain
1569303783	Combining Multi-Probe Histogram and Order-Statistics Based LSH for Scalable Audio Content Retrieval	Yi Yu; Michel Crucianu; Vincent Oria; Ernesto Damiani
1569304767	Spatial Coding for Large Scale Partial-Duplicate Web Image Search	Wengang Zhou; Yijuan Lu; Houqiang Li; Yibing Song; Qi Tian
1569304870	iLike: Integrating Visual and Textual Features for Vertical Search	Yuxin Chen; Nenghai Yu; Bo Luo; Xue-wen Chen
1569305045	Sketch-Based 3D Model Retrieval using Diffusion Tensor Fields of Suggestive Contours	Sang Min Yoon; Maximilian Scherer; Tobias Schreck; Arjan Kuijper
1569305123	A Coherent Framework for Photo-Quality Assessment and Enhancement based on Visual Aesthetics	Subhabrata Bhattacharya; Rahul Sukthankar; Mubarak Shah
1569305519	Mining People's Trips from Large Scale Geo-tagged Photos	Yuki Arase; Xing Xie; Takahiro Hara; Shojiro Nishio
1569305677	Automated Aesthetic Enhancement of Videos	Yangyang Xiang; Mohan Kankanhalli
1569305715	Learning to Photograph	Bin Cheng; Bing Bing Ni; Shuicheng Yan; Qi Tian
1569305845	The Third Eye: Mining the Visual Cognition across Multilanguage Communities	Chunxi Liu; Qingming Huang; Shuqiang Jiang; Changsheng Xu
1569306039	Green Multimedia: Informing People of their Carbon Footprint through Two Simple Sensors	Aiden Doherty; Zhengwei Qiu; Colum Foley; Hyowon Lee; Cathal Gurrin; Alan Smeaton
1569306179	TalkMiner: A Lecture Webcast Search Engine	John Adcock; Laurent Denoue; Matthew Cooper; Hamed Pirsivash; Lawrence Rowe
1569306245	Photo2Trip: Generating Travel Routes from Geo-Tagged Photos for Trip Planning	Xin Lu; Changhu Wang; Jiang-Ming Yang; Yanwei Pang; Lei Zhang
1569306465	Image Retagging	Dong Liu; Xian-Sheng Hua; Meng Wang; Hong-Jiang Zhang
1569306755	Crowd-sourced Automatic Zoom and Scroll for Video Retargeting	Axel Carlier; Vincent Charvillat; Wei Tsang Ooi; Romulus Grigoras; Geraldine Morin
1569311301	Social Audio Features for Advanced Music Retrieval Interfaces	Michael Kuhn; Roger Wattenhofer; Samuel Welten
1569304961	Fast Color Matching of Image Sequences with Combined Gamma and Linear Corrections	Yingen Xiong; Kari Pulli

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Main Conference Short Paper Program (accepted papers)

Content

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1569299791	One Person Labels One Million Images	Jinhui Tang; Qiang Chen; Shuicheng Yan; Tat-Seng Chua; Ramesh Jain
1569305071	Cross-Modal Resource Searching by Exploiting Wikipedia Contents	Chen Liu; Bin Cui; Beng Chin Ooi; Anthony K. H. Tung
1569305277	Vicept: Link Visual Features to Concepts for Large-scale Image Understanding	Zhipeng Wu; Shuqiang Jiang; Liang Li; Qingming Huang; Wen Gao
1569305283	Hybrid Image Summarization	Jingdong Wang; Hao Xu; Xian-Sheng Hua; Shipeng Li
1569305455	Analyzing and Predicting Sentiment of Images on the Social Web	Stefan Siersdorfer; Jonathon Hare; Enrico Minack; Fan Deng
1569305879	Landmark Image Classification Using 3D Point Clouds	Xian Xiao; Changsheng Xu; Jinqiao Wang
1569305941	Portfolio theory of multimedia fusion	Xiangyu Wang; Mohan Kankanhalli
1569306025	Exploiting Noisy Visual Concept Detection to Improve Spoken Content based Video Retrieval	Stevan Rudinac; Martha Larson; Alan Hanjalic
1569306481	End-to-end Stochastic Scheduling of Scalable Video Over Time Varying Channels	Nesrine Changuel; Nicholas Mastronarde; Mihaela van der Schaar; Bessem Sayadi; Michel Kieffer
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Sponsors



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ACM Multimedia 2010 Twitter

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1569313359	A novel video hash algorithm	Li Weng; Bart Preneel
1569314635	Age Classification for Pose Variant and Occluded Faces	Wei-Ta Chu; Wen-Long Liu; Jen-Yu Yu
1569316009	Movie Genre Classification via Scene Categorization	Howard Zhou; Tucker Hermans; Asmita Karandikar; James Rehg
1569319049	Rushes Video Summarization via Dynamic Unsupervised Learning	Yang Liu; Feng Zhou; Wei Liu; Fernando De la Torre; Yan Liu
1569319303	VERT: Automatic Evaluation of Video Summaries	Yingbo Li; Bernard Merialdo
1569319403	Character-Based Movie Summarization	Sang Jitao; Changsheng Xu
1569319545	L1-Norm Maximum Distance Embedding for Image and Video Classification	Yang Liu; Yan Liu; Keith C. C. Chan
1569320579	Unsupervised Object Category Discovery via Information Bottleneck Method	Zhengzheng Lou; Yangdong Ye; Dong Liu
1569321557	Probabilistic Visual Concept Trees	Lexing Xie; Apostol (Paul) Natsev; John Smith; Rong Yan; Jelena Tesic
1569322143	A Conditional Random Field Viewpoint of Symbolic Audio-to-Score Matching	Cyril Joder; Slim Essid; Gaël Richard
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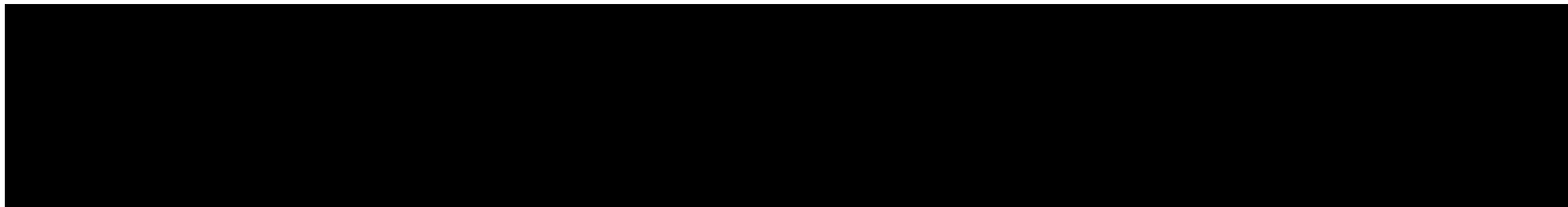
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Brave New Ideas Program (accepted papers)

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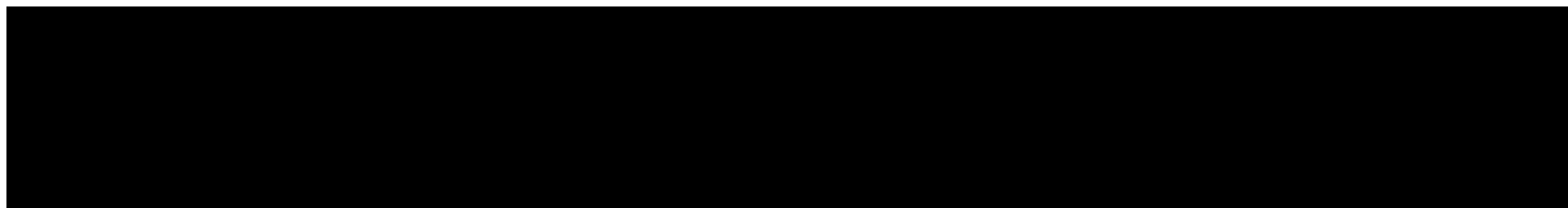


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1569323645	Surfing on Artistic Documents with Visually Assisted Tagging	Costantino Grana; Daniele Borghesani; Rita Cucchiara

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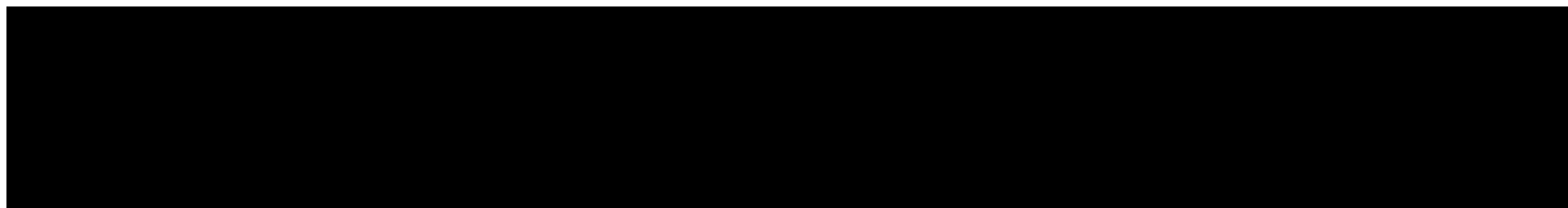


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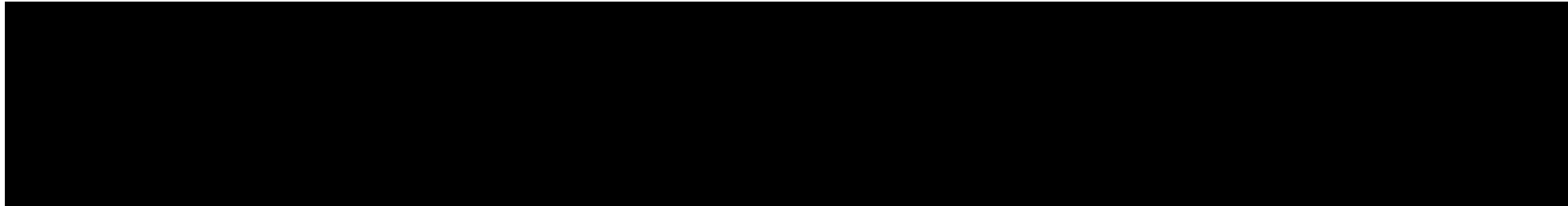
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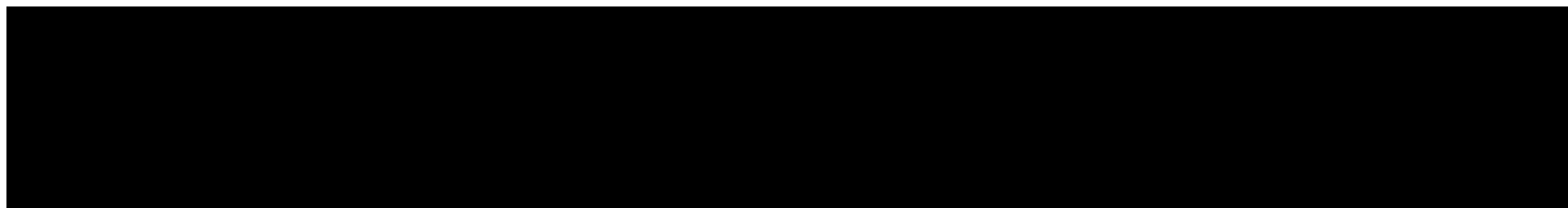


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Technical Demos Program (accepted contributions)

PAPER ID	TITLE	AUTHORS
1569319311	Crowdsourcing Rock N' Roll Multimedia Retrieval	Cees Snoek; Bauke Freiburg; Johan Oomen; Roeland Ordelman
1569319533	Media Distribution via 2D Communication Sheet	Youiti Kado; Bing Zhang; Jiang Yu Zheng
1569320033	Melog	Hongzhi Li; Xian-Sheng Hua; Xijia Liu
1569320695	Color and Luminance Compensation for Mobile Panorama Construction	Yingen Xiong; Kari Pulli
1569322173	iPhotobook: Creating Photo Books on Mobile Devices	Jun Xiao; Nicholas Lyons; Clayton Atkins; Yuli Gao; Hui Chao; Xuemei Zhang
1569322557	Blog2Book – Transforming Blogs into Photo Books Employing Aesthetic Principles	Philipp Sandhaus; Mohammad Rabbath; Susanne Boll
1569322881	TagCaptcha: Annotating images with CAPTCHAs	Donn Morrison
1569322929	A Technical Demonstration of Large-Scale Image Object Retrieval by Efficient Query Evaluation and Effective Auxiliary Visual Feature Discovery	Yin-Hsi Kuo; Yi-Lun Wu; Kuan-Ting Chen; Yi-Hsuan Yang; Tzu-Hsuan Chiu; Winston Hsu
1569323167	SIVA Suite	Britta Meixner; Beate Siegel; Günter Hölbling; Franz Lehner; Harald Kosch
1569323173	Integrated Mobile Visualization and Interaction of Events and POIs	Ansgar Scherp; Daniel Schmeiß; Steffen Staab
1569323233	3D Ancient Mosaics	Sebastiano Battiato; Giovanni Puglisi
	Training Data Collection System for a Learning-	Razvan Orendovici; James Wang

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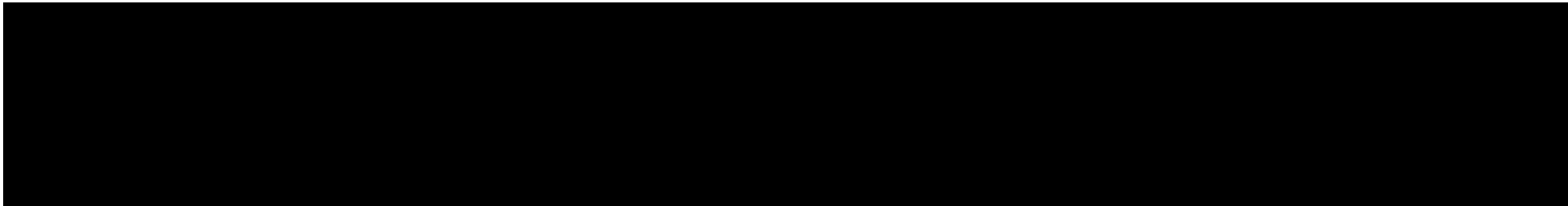
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1569323257	based Photographic Aesthetic Quality Inference Engine	
1569323275	Photo2Trip: An Interactive Trip Planning System Based on Geo-Tagged Photos	Huangang Yin; Xin Lu; Changhu Wang; Nenghai Yu; Lei Zhang
1569323307	Coming Together – Negotiated Content by Multi-agents	Arne Eigenfeldt
1569323315	Mobile product recognition	Sam Tsai; David Chen; Vijay Chandrasekhar; Gabriel Takacs; Ngai-Man Cheung; Ramakrishna Vedantham; Radek Grzeszczuk; Bernd Girod
1569323335	Joke-o-mat HD: Browsing Sitcoms with Human Derived Transcripts	Adam Janin; Luke Gottlieb; Gerald Friedland
1569323345	Multi-exposure Imaging on Mobile Devices (Demo)	Natasha Gelfand; Andrew Adams; Sung Hee Park; Kari Pulli
1569323461	Movie2Comics: Explore Diverse Presentation through Turning Movie to Comics	Richang Hong; Meng Wang; Xiao-Tong Yuan; Shuicheng Yan; Tat-Seng Chua
1569323589	vESP: Enriching Enterprise Document Search Results with Aligned Video Summarization	Pål Halvorsen; Dag Johansen; Bjørn Olstad; Tomas Kupka; Sverre Tennøe
1569323663	MindFinder: Interactive Sketch-based Image Search on Millions of Images	Yang Cao; Hai Wang; Changhu Wang; Zhiwei Li; Liqing Zhang; Lei Zhang
1569323671	Facilitating Interactive Search and Navigation in Videos	Klaus Schoeffmann
1569323706	BIOFACE, a Biometric Face demonstrator	Mourad Ouaret; Antitza Dantcheva; Rui Min; Lionel Daniel; Jean-Luc Dugelay
1569323723	ClustTour: City Exploration by use of Hybrid Photo Clustering	Symeon Papadopoulos; Christos Zigkolis; Stefanos Kapiris; Yiannis Kompatsiaris; Athena Vakali
1569323827	Rerum Novarum: Interactive Exploration of Illuminated Manuscripts	Daniele Borghesani; Costantino Grana; Rita Cucchiara
1569323836	Sirio, Orione and Pan: an Integrated Web System for Ontology-based Video Search and Annotation	Marco Bertini; Gianpaolo D'Amico; Andrea Ferracani; Marco Meoni; Giuseppe Serra
1569323838	Web-based semantic browsing of video collections using multimedia ontologies	Marco Bertini; Gianpaolo D'Amico; Andrea Ferracani; Marco Meoni; Giuseppe Serra
1569323845	MediaTable: a tool for categorizing multimedia collections	Ork de Rooij; Marcel Worring
1569323927	Interactive Person-Retrieval in TV Series and Distributed Surveillance Video	Martin Bäuml; Mika Fischer; Keni Bernardin; Hazim Ekenel; Rainer Stiefelwagen
1569323955	Trajectory-based Visualization of Web Video Topics	Juan Cao; Chong-Wah Ngo; Yong-Dong Zhang; Liang Ma
1569323991	Adding Haptic Feature to YouTube	Md. Abdur Rahman; Abdulmotaleb El Saddik; Jongeun Cha
1569324041	Assisted news reading with automated illustration	Diogo Delgado; Joao Magalhaes; Nuno Correia
	MediaPick: Tangible Semantic Media Retrieval	Gianpaolo D'Amico; Andrea Ferracani; Lea

1569324097	System	Landucci; Daniele Pezzatini; Nicola Torpei
1569324121	Effects of Environmental Colour on Mood: A Wearable Life Colour Capture Device	Aiden Doherty; Philip Kelly; Alan Smeaton; Brendan O' Flynn; Noel. E. O'Connor; Cian Ó Mathúna; Pdraig Curran
1569324131	Mobile Video Browsing and Retrieval with the OVIDIUS Platform	Titus Zaharia; Andrei Bursuc; Françoise Preteux
1569324139	Serious Games for Health – Personalized Exergames	Stefan Göbel; Sandro Hardy; Viktor Wendel; Florian Mehm; Ralf Steinmetz
1569324183	A GPU-Accelerated Face Annotation System for Smartphones	Yi-Chu Wang; Sydney Pang; Kwang-Ting Cheng
1569324209	Crew:Cross-modal Resource searching by Exploiting Wikipedia	Chen Liu; Beng Chin Ooi; Anthony K. H. Tung; Dongxiang Zhang
1569324215	Construction of Image Retrieval Systems Focused on User Knowledge Interaction	Tomoko Kajiyama; Shin'ichi Satoh
1569324241	Visualization of concurrent tones in music with colours	Bojan Klemenc; Peter Ciuha; Franc Solina
1569324289	Changing Characters' Point of View in Interactive Storytelling	Fred Charles
1569324325	Speeding Up Mobile Multimedia Applications	Jiang Gao
1569324549	A Multimedia Approach to Visualize and Interact with Large Scale Mobile LIDAR Data	James Lynch; Xin Chen; Roger Hui
1569324567	Automatic Skin Enhancement with Visible and Near-Infrared Image Fusion	Sabine Susstrunk; Clément Fredembach; Daniel Tamburrino

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Industry Exhibit Program (accepted contributions)

PAPER ID	TITLE	AUTHORS
1569325187	Virtual Environment for Surprises	Lara Oliveti
1569327985	RAPID: A Reliable Protocol for Improving Delay	Sanjeev Mehrotra; Jin Li; Cheng Huang
1569328083	A Location Based Reminder System for Advertisement	Yiqun Li; Aiyuan Guo; Siying Liu; Yan Gao
1569328533	Embedded Media Marker: Linking Multimedia to Paper	Qiong Liu; Chunyuan Liao; Lynn Wilcox; Anthony Dunnigan; Bee Liew
1569328537	The Virtual Chocolate Factory: Mixed Reality Industrial Collaboration and Control	Maribeth Back; Don Kimber; Eleanor Rieffel; Anthony Dunnigan; Bee Liew; Sagar Gattepally; Jonathan Foote; Jun Shingu
1569328549	TalkMiner: A Search Engine for Online Lecture Video	John Adcock; Matthew Cooper; Laurent Denoue; Lawrence Rowe; Hamed Pirsiavash
1569329679	Multi-Sensor Fusion for Interactive Visual Computing in Mixed Environment	Peng Wang
1569329691	Uffizi Touch®	Marco Cappellini
1569329769	Social Recommendation and Visual Analysis on the TV	Cathal Gurrin; Hyowon Lee; Paul Ferguson; Noel. E. O'Connor; Alan Smeaton; Yoon-Hee Choi; Hee-Seon Park
1569329771	Multimedia Security Technologies for Movie Protection	Michael Arnold; Séverine Baudry; Peter Baum; Xiao-Ming Chen; Bertrand Chupeau; Olivier Courtay; Gwenael Doërr; Ulrich Gries
	Efficient and Robust Near-Duplicate	Julian Stöttinger; Thomas Pönitz

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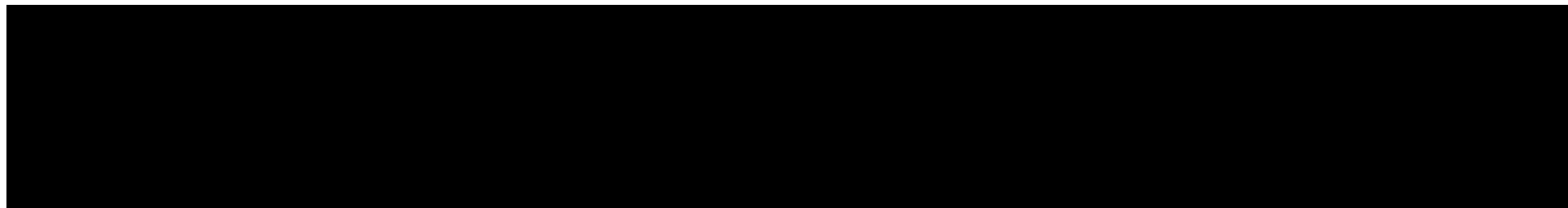
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1569329871	Detection in Large and Growing Image Data-Sets	
1569329885	File-Based Media Workflows using LTFS Tapes	Arnon Amir; David Pease; Rainer Richter
1569329981	PopApp: the first 3d POPular APPLICATION for non-linear Presentations	Claudio Mazzanti
1569330145	Large Scale Partially Duplicated Web Image Retrieval	Wengang Zhou; Yijuan Lu; Houqiang Li; Qi Tian
1569330481	Visual search applications for connecting published works to digital material	Jamey Graham; Jorge Moraleda; Jonathan Hull; Timothee Bailloeul; Xu Liu; Andrea Mariotti
1569330919	SCOTT: Set Cover Tracing Technology	Dulce Ponceleon
1569331053	Physical Hyperlinks For Citizen Interaction	Dustin Haisler; Phil Tate
1569331331	Mobile Document Scanning and Copying	Jian Fan; Qian Lin; Jerry Liu
1569333945	Data-driven behavioural algorithms	Antonio Tomarchio; Francesco Bellacci; Filippo Privitera

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Panels Program

The Use of Non-Conventional Means for Media Content Analysis and Understanding

Organizers: [Nicu Sebe](#) (Univ of Trento, Italy), [Qi Tian](#) (Univ of Texas at San Antonio)

Theme: There is a clear trend towards going beyond classical approaches to UI by incorporating novel non-conventional features, such as brain signals and eye gaze to enhance HCI. This panel is conceived to discuss key concepts, state-of the art techniques, open issues, current and future trends in the above topic.

All Things Mobile: The Present and Future of Mobile Phone Computing

Organizer: [Daniel Gatica-Perez](#) (Idiap Research Institute, Switzerland)

Panelists: Juha Laurila, Nokia Research Center, Lausanne; Berna Erol, Ricoh; Shipeng Li, Microsoft Research Asia; Ramesh Jain, University of California, Irvine.

Theme: This Panel focuses on recent trends in mobile computing – smart-phones, reality mining and mobile search. It aims to discuss present trends and future challenges in mobile phone-base computing in academia and industry.

Disputatio on the use of Ontology for Semantic

Organizers: [Simone Santini](#) (Universidad Autonoma de Madrid, Spain), [Amarnath Gupta](#) (SDSC, UC San Diego, USA)

Theme: This panel proposes a different format, based on the medieval tradition of the “disputatio” – a debating format centered around two champions, one from each side of the proposition to be debated. The topic is on the use of ontology for semantics.

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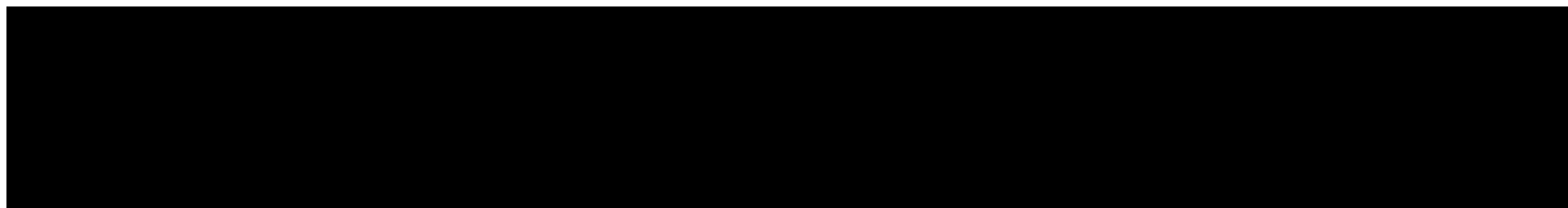


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Discussion Rooms Program (accepted papers)

PAPER ID	TITLE	AUTHORS
1569305787	Towards a Universal Detector by Mining Concepts with Small Semantic Gaps	Jiashi Feng; Yan-Tao Zheng; Shuicheng Yan
1569306111	Intelligent Query for Multi-View 3D Object Retrieval	Yue Gao; Meng Wang; Dai Qiong-Hai; Zhang Nai-Yao
1569306697	Interactive Storytelling Through Video Content Recombination	Julie Porteous; Marc Cavazza; Fred Charles; Riccardo Leonardi; Luca Canini; Sergio Benini
1569306917	Stereoscopic Media Processing Based on 3D Cinematography Principles	Chun-wei Liu; Tz-Huan Huang; Ming-Hsu Chang; Ken-Yi Lee; Chia-Kai Liang; Yung-Yu Chuang

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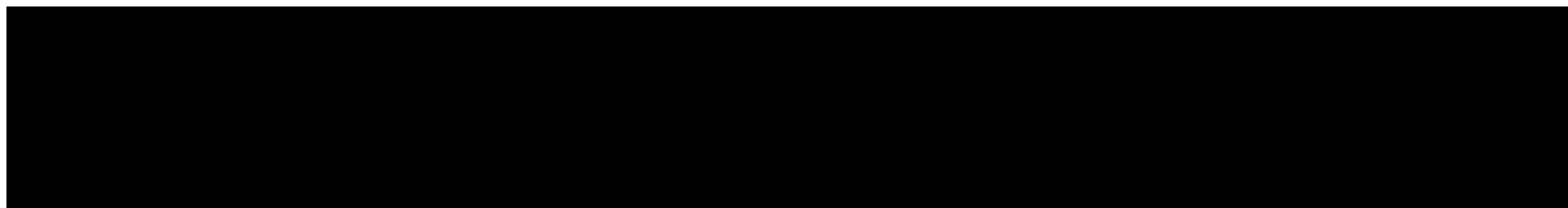


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Doctoral Symposium Program (accepted contributions)

PAPER ID	TITLE	AUTHORS
ds01	Free-hand Sketch Based Image and Video Retrieval	Rui Hu
ds02	Automatic and Manual Processes in End-User Multimedia Authoring Tools: Where is the Balance?	Rodrigo Laiola Guimarães
ds03	Analysis and classification of conversational interactions	Anna Pesarin
ds04	FlashBoost: Design of Flash Memory Buffer Cache Mechanism for Video-on-Demand	Moonkyung Ryu
ds05	Interoperable and Unified Multimedia Retrieval in Distributed and Heterogeneous Environments	Florian Stegmaier

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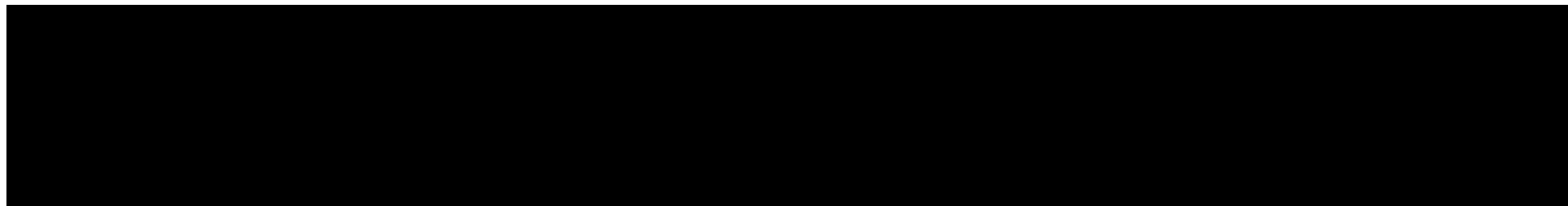


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Open Source Software Competition Program (accepted contributions)

PAPER ID	TITLE	AUTHORS	SOFTWARE DOWNLOAD URL
1569322155	openSMILE – The Munich Versatile and Fast Open-Source Audio Feature Extractor	Florian Eyben; Martin Woellmer; Bjoern Schuller	openSMILE
1569323009	LIBPMK: A Pyramid Match Toolkit	John Lee; Tom Yeh	LIBPMK
1569323187	Open SVC Decoder: a flexible SVC library	Médéric Blestel; Mickael Raulet	Open SVC Decoder
1569323225	Sonic Visualiser	Chris Cannam; Mark Sandler; Christian Landone	Sonic Visualiser
1569323949	VLFeat – An open and portable library of computer vision algorithms	Andrea Vedaldi; Brian Fulkerson	VLFeat
1569323959	TOP-SURF: a visual words toolkit	Bart Thomee; Erwin Bakker; Michael Lew	TOP-SURF
1569324165	The implementation of FALCON: a FAST Lucene-based Cover sOng identificatioN engine	Emanuele Di Buccio; Nicola Montecchio; Nicola Orio	FALCON
1569324203	The Python Computer Vision Framework	Bertrand Nouvel; Shin'ichi Satoh	PYCVF
1569325031	Torchvision the machine-vision package of Torch	Sébastien Marcel; Yann Rodriguez	Torchvision
1569325763	The openIP open source image processing library	Gyorgy Kovacs; Attila Fazekas; Janos Istvan Ivan; Arpad Panyik	openIP
1569327627	An Open-Source SIFT Library	Rob Hess	Open-Source SIFT

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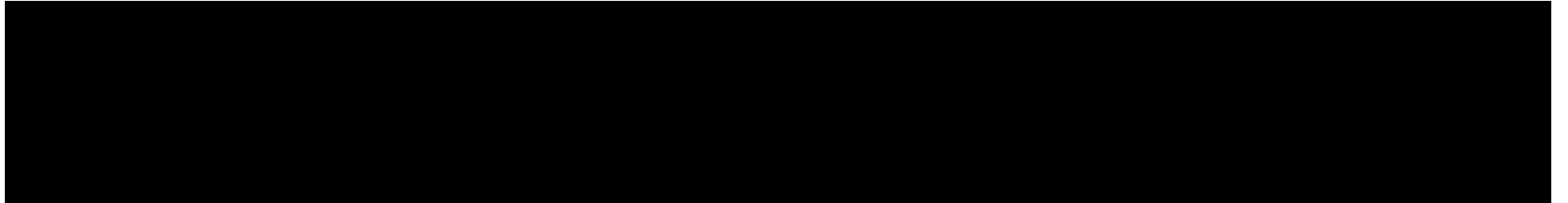
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Multimedia Grand Challenge Program

TITLE	AUTHORS	ADDRESS CHALLENGE
A low-cost performance analysis and coaching system for tennis	Philip T Kelly; Petros Daras; Noel. E. O'Connor; Juan Diego Pérez-Moneo Agapito	3DLife
Human Body Tracking of Tennis Players using Hierarchical Particle Filtering and Variable Windows	Adolfo López-Méndez; Marcel Alcoverro; Montse Pardas; Josep R. Casas	3DLife
Audience Dependent Photo Collection Summarization	Pere Obrador, Rodrigo de Oliveira, Nuria Oliver	CeWe
Social Game Epitome versus Automatic Visual Analysis	Peter Vajda; Ivan Ivanov; Lutz Goldmann; Touradj Ebrahimi	HP
Learning-to-Photograph towards HP Challenge	Bin Cheng, Bingbing Ni, Shuicheng Yan, Qi Tian	HP
Using Android and Indoor Localization for Diaries	Eladio Martin; Oriol Vinyals; Gerald Friedland; Ruzena Bajcsy	Google diaries
Improving Personal Diaries Using Social Audio Features	Michael Kuhn, Roger Wattenhofer, Samuel Welten	Google diaries
Google Challenge 2010: Efficient Genre-specific Semantic Video Indexing	Jun Wu; Marcel Worring	Google video genre
Video Classification based on Contextual Visual Vocabulary	Shiliang Zhang, Qi Tian, Gang Hua, Qingming Huang, Shuqiang Jiang, Wen Gao	Google video genre
VIRaL: Visual Image Retrieval and Localization	Yannis Avrithis, Yannis Kalantidis, Giorgos Tolias	Nokia
ROI-based Content Adaptation for Mobile Device Usage of Video Conferencing	Wei Song, Dian Tjondronegoro, Ivan Himawan	Radvision adapt

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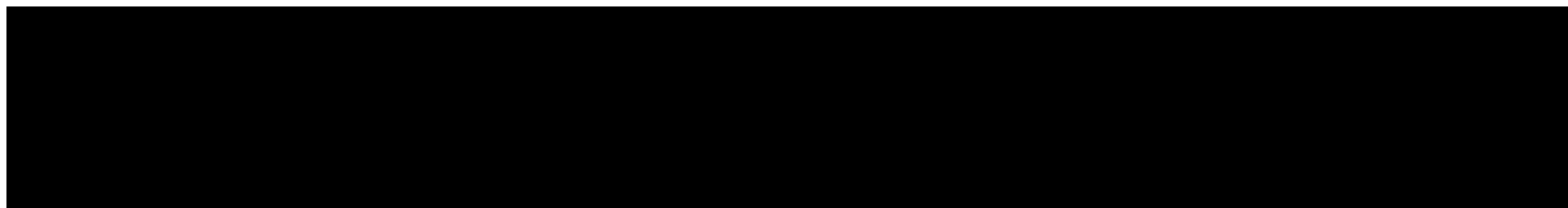


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Gaze Awareness and Interaction Support in Presentations: Video Conference Experience Grand Challenge Statement	Kar-Han Tan; Dan Gelb; Ramin Samadani; Ian N Robinson; Bruce Culbertson; John Apostolopoulos	Radvision video conf
Rendering Panorama in Mobile Video Conferencing	Shu Shi; Zhengyou Zhang	Radvision video conf
Multi-Scale Entropy analysis of Dominance in Social Creative Activities	Donald Glowinski; Paolo Coletta	Radvision video conf
Searching and Browsing Social Images through iAVATAR	Aixin Sun; Sourav Bhowmick	Yahoo classification
Understanding Affect in Images	Jana Machajdik, Allan Hanbury, Julian Stöttinger	Yahoo classification
Introducing topic segmentation and segmented-based browsing tools into a content based video retrieval system	Julien Law-To; Gregory Grefenstette; Jean-Luc Gauvain; Guillaume Gravier; Lori Lamel; Julien	Yahoo segmentation
Towards Yahoo! Challenge: A Generic Event Detection and Segmentation System for Video Navigation and Search	Tianzhu Zhang, Changsheng Xu, Guangyu Zhu, Si Liu, Hanqing Lu	Yahoo segmentation

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T01 – Processing Web-Scale Multimedia Data

The Internet brings us access to multimedia databases with billions of objects. The massive change in the amount of data available to researchers is changing the face of multimedia. In many domains, speech-recognition is most notable, people have observed that the best way to improve their algorithm's performance is to add more data. Starting with hidden-Markov models (HMMs) and support-vector machines, people have applied ever greater amounts of data to their problems and been rewarded with new levels of performance.

What are the new algorithms and ideas that are necessary to work with such large databases of imagery, video, music, speech, and text? How do we define the scope of a problem, and how do we apply modern clusters of processors to these problems? What does it take to collect, manage and deliver solutions with millions of objects and petabytes of data?

In this tutorial we will present a range of algorithms and tools that make it easy/easier to scale our work to Internet-sized collections of multimedia. This tutorial will give attendees the tools they need to make use of large-scale datasets. The tutorial will start by providing attendees an overview and pointers to the tools that will allow them to scale their work to modern datasets. The tutorial discusses the theoretical and practical problem with large data, applications where large amounts of data are important to consider, types of algorithms that are practical with such large datasets, and examples of implementation techniques that make these algorithms practical. Many real-world examples and results illustrate the tutorial.

More specifically, our tutorial is divided into four types of web-scale processing options: simplified algorithms, randomized algorithms, parallel algorithms and implementations. Web-scale multimedia has brought a resurgence of interest in simple algorithms that can work with large data. This includes streaming algorithms that do not try to operate on all the data at once, and decision trees that do not seek a global optimum. Randomized algorithms are important because our data is large and redundant. We can often choose random directions (from the data) and come close to an optimum solution. A new set of algorithms are useful on the large parallel clusters of machines that are now available. Rearranging an algorithm so that it can be run on parallel computers makes a big difference. Finally, a new set of implementation techniques, such as parallel file systems, noSQL databases and map/reduce, and MPI frameworks have made all these ideas realistic.

This tutorial is based on two successful tutorials that were offered by the presenters at previous conferences. Dr. Slaney presented a tutorial titled "MIR at the Scale of the Web," which was attended by more than 100 people at the ISMIR 2009 meeting (International Society of Music Information Retrieval.) Dr. Chang presented successful tutorials on "Large-scale Data Mining" at CIKM in 2009 and "Parallel Algorithms for Mining Large-scale Multimedia Datasets" at ACM MM 2009. This new tutorial represents

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a combination of the information, and is taught by researchers from two of the largest Internet (and multimedia) companies in the world.

Audience

This tutorial is aimed at technical students, researchers, and others interested in the large-scale processing algorithms and tools needed to handle today's multimedia-processing needs. Our goal is to introduce techniques to the ACM Multimedia community that will encourage new research and development on the large-scale databases available to today's consumer and research communities.

Outline

- The problem
 - Size and curse of dimensionality
 - Machine-learning issues (why more data, etc)
 - Applications
- Algorithm Simplifications
 - Boosted Decision Trees
 - Streaming Algorithms
- Randomized Algorithms
 - Theory
 - MinHash
 - LSH
- Parallel Algorithms
 - PSVM
 - PLDA*
 - Spectral Clustering
 - Combinational Collaborative Filtering
- Implementations
 - Map/Reduce
 - MPI
 - Google FS & Yahoo Sherpa
- New Directions
 - Tag ambiguity instead of tag suggestion
 - Inverse ESP
 - Deep vs. Shallow Learning Architecture
 - Model-based vs. Data-driven models
 - DMD: Deep Model-based and Data-driven Hybrid Model

Organizers/Presenters



Dr. **Malcolm Slaney** is a Principle Scientist at Yahoo! Research where he has been working on multimedia analysis and music- and image-retrieval algorithms in databases with billions of items. He is a Fellow of the IEEE and Associate Editors of IEEE Transactions on Audio, Speech and Signal Processing and IEEE Multimedia Magazine. He has given successful tutorials at ICASSP 1996 and 2009 on "Applications of Psychoacoustics to Signal Processing" and on "Multimedia Information Retrieval" at SIGIR and ICASSP. He is a coauthor, with A. C. Kak, of the IEEE book "Principles of Computerized Tomographic Imaging." This book was recently republished by SIAM in their "Classics in Applied Mathematics" Series. He is coeditor, with Steven Greenberg, of the book "Computational Models of Auditory Function." Before

Yahoo!, Dr. Slaney has worked at Bell Laboratory, Schlumberger Palo Alto Research, Apple Computer, Interval Research and IBM's Almaden Research Center. For the last several years he has lead the auditory group at the Telluride Neuromorphic Workshop. He is a (consulting) Professor at Stanford CCRMA where he has led the Hearing Seminar for the last 20 years.

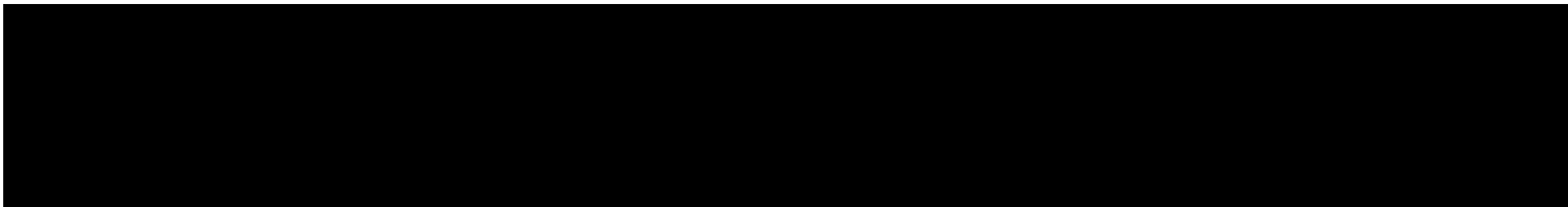


Dr. **Edward Chang** heads Google Research in China since March 2006. He joined the department of Electrical & Computer Engineering at University of California, Santa Barbara, in 1999 after receiving his PhD from Stanford University. Ed received his tenure in 2003, and was promoted to full professor of Electrical Engineering in 2006. His recent research activities are in the areas of distributed data mining and their applications to rich-media data management and social-network collaborative filtering. His research group (which consists of members from Google, UC, MIT, Tsinghua, PKU, and Zheda) recently parallelized SVMs (NIPS 07), PLSA (KDD 08), Association Mining (ACM RS 08), Spectral Clustering (ECML 08), and LDA (WWW 09) (see MMDS/CIVR/EMMDS/AAIM/ADMA/CIKM keynote slides for details) to run on thousands of machines for mining large-scale datasets. His team at Google developed and launched Google Confucius (a Q&A system) at China, Russia, Thailand, and 17 Arabic countries. Ed has served on ACM (SIGMOD, KDD, MM, CIKM), VLDB, IEEE, WWW, and SIAM conference program committees, and co-chaired several conferences including MMM, ACM MM, ICDE, and WWW. Ed is a recipient of the IBM Faculty Partnership Award and the NSF Career Award.

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ACM Multimedia 2010

International Conference

25-29th October 2010, Firenze, Italy



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T02 – Advances in Multimedia Retrieval

Multimedia that cannot be found is, in a certain sense, useless. It is lost in a huge collection, or worse, in a back alley of the Internet, never viewed and impossible to reuse. Research in multimedia retrieval is directed at developing techniques that bring video together with users – matching multimedia content and user needs. The aim of this tutorial is to provide insights into the most recent developments in the field of multimedia retrieval and to identify the issues and bottlenecks that could determine the directions of research focus for the coming years.

This tutorial targets new scientists in the field of multimedia retrieval, providing instruction on how to best approach the multimedia retrieval problem and examples of promising research directions to work on. It is also designed to benefit active multimedia retrieval scientists — those who are searching for new challenges or re-orientation. The material covered is relevant for participants from both academia and industry. It covers issues pertaining to the development of modern multimedia retrieval systems and highlights emerging challenges and techniques anticipated to be important for the future of multimedia retrieval.

This tutorial consists of two parts, which can be attended separately, but together provide a complete overview of recent advances in multimedia retrieval. The first part (morning session) titled **Frontiers in Multimedia Search** will be presented by Alan Hanjalic and Martha Larson from the Delft University of Technology, The Netherlands, and the second part (afternoon session) titled **Video Search Engines** will be presented by Cees Snoek and Arnold Smeulders from the University of Amsterdam, The Netherlands. The focus and program of each part are outlined below.

Part I: Frontiers in Multimedia Search

In this part of the tutorial, a picture of the research efforts at the frontiers of multimedia search will be presented to the participants that will encourage them to more effectively direct their own research work, to abandon outdated assumptions about the nature of the field and to keep the focus set on the ever-evolving needs of the user.

We will start by outlining the critical issues concerning usefulness of multimedia search systems, addressing the questions, “How does multimedia search fit into our lives?” and “What do users really want from multimedia search systems?” The issues discussed include:

- pictorial vs. thematic relevance (“aboutness”) of a search result,
- relevance vs. diversity of top-ranked search results,
- simplicity vs. transparency: how much of the search process should the user see?

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The main body of the presentation focuses on possibilities for exploiting and combining available information resources to optimize multimedia search results in view of these usefulness issues. We concentrate on three complementary information sources:

- **User:** Exploiting the interaction of the user with the search system, either to enhance the query so that it better reflects the user information need and search intent, or to enrich the collection with implicit or explicit metadata. Approaches discussed include: transaction log analysis, context modeling in multimedia search, (visual) query suggestion and user-supported query expansion.
- **Collection:** Exploiting the information inherent in the relationships that exist in the collection and in the search environment, for example, similarities between documents and connections among users. Two categories of approaches and techniques working in this direction will be discussed:
 - Maximizing the quality of the top-ranked search results using IR concepts and cross-modal analysis through e.g., (visual) search reranking, query-class-dependent search and query performance prediction,
 - Integrating social information from networked communities, including use of community-contributed metadata and techniques for socially-driven tag propagation and de-noising.
- **Content:** Exploiting all information channels (both individually and combined) in the content collection itself. Automatic indexing systems (e.g., speech recognition, audio event detection, semantic concept detection) are well known for their imperfections. Instead of endless resistance, multimedia search paradigms are required that can robustly deal with noise. Approaches discussed include:
 - Lessons learned from spoken content retrieval (feature engineering, confidence scores, lattices),
 - Exploiting characteristics of multimedia items that are revealed using simple methods of structural analysis,
 - Integrating information from external sources to reduce influence of indexing noise.

The tutorial closes with an examination of the opportunities to formulate research topics that are closely related to the needs of the user and to carry out work in the newly evolving multimedia search paradigms. In particular, the MediaEval (formerly VideoCLEF) benchmarking effort will be presented, which emphasizes innovative multimedia search tasks, such as, for instance, the task on semantic-theme tagging for video. For the semantic theme task, depiction of specific entities, scenes or events in the video is not sufficient, but rather the “aboutness” of a video, i.e., its subject matter taken as a whole, is what is taken to determine relevance to a particular tag. An overview of the tasks and an explanation of the evaluation corpus and criteria will be provided.

Organizers/Presenters



Dr. [Alan Hanjalic](#) is an Associate Professor and Coordinator of the Delft Multimedia Information Retrieval Lab at the Delft University of Technology, The Netherlands. He was a visiting scientist at Hewlett-Packard Labs, British Telecom Labs, Philips Research Labs and Microsoft Research Asia. Research interests and expertise of Dr. Hanjalic are in the broad areas of multimedia computing, with focus on multimedia information retrieval and personalized multimedia content delivery. In his areas of expertise Dr. Hanjalic (co-)authored more than 80 publications, among which the books titled *Image and Video Databases: Restoration, Watermarking and Retrieval* (Elsevier, 2000) and *Content-Based Analysis of*

Digital Video (Kluwer Academic Publishers, 2004). Dr. Hanjalic has been on Editorial Boards of the *IEEE Transactions on Multimedia* (2006-2010), the *IEEE Transactions on Affective Computing*, *Journal of Multimedia*, *Advances in Multimedia* (Hindawi) and the *Image and Vision Computing journal* (Elsevier). He was also a Guest Editor of special issues in a number of journals, including the *Proceedings of the IEEE* (2008), *IEEE Transactions on Multimedia* (2009), and *Journal of Visual Communication and Image Representation* (2009). He has also served in the organization committees of the major conferences in the multimedia field, including the *ACM Multimedia Conference* (General Chair 2009, Program Chair 2007), *ACM CIVR conference* (Program Chair 2008), *ACM ICMR conference* (Program Chair 2011), the *WWW conference* (Track Chair 2008), *Multimedia Modeling Conference* (Area Chair 2007), *Pacific Rim Conference on Multimedia* (Track Chair 2007), *IEEE ICME* (Track Chair 2007), and the *IEEE ICIP conference* (Track Chair 2010). Dr. Hanjalic was a Keynote Speaker at the *Pacific-Rim Conference on Multimedia*, Hong-Kong, December 2007 and a member or organizer of the panels at *ACM Multimedia 2007* and the *ACM MIR 2010 conferences* and the *Picture Coding Symposium 2007*.



Dr. [Martha Larson](#) is a senior researcher in the area of video retrieval and speech search in the Multimedia Information Retrieval Lab, Delft University of Technology, The Netherlands. Before joining Delft University of Technology, she researched and lectured in the area of audio-visual retrieval at Fraunhofer IAIS and at the University of Amsterdam. Martha Larson holds a MA and PhD in theoretical linguistics from Cornell University and a BS in Mathematics from the University of Wisconsin. She carries out her research within PetaMedia, an EU Network of Excellence dedicated to improving multimedia access technology by integrating multimedia content analysis and user-based metadata sources, including tags and social network structures. Martha Larson is a co-organizer of MediaEval, a multimedia retrieval benchmark campaign that emphasizes multimodal and especially speech-based multimedia search approaches. She is an organizer of the “Searching Spontaneous Conversational Speech” workshop series, organized since 2007 in conjunction with the ACM SIGIR and ACM Multimedia conferences. She is a guest editor of the upcoming ACM TOIS special issue on searching spontaneous conversational speech. Recently, much of her research focused on deriving and exploiting information from multimedia that is “orthogonal to topic”, not directly related to the subject matter. Examples include information on user-perceived quality and affect. Such information can be used to improve the quality of multimedia search. Her research interests also include user-generated multimedia content, cultural heritage archives, indexing approaches exploiting multiple modalities, techniques for semantic structuring of spoken content and methods for reducing the impact of speech recognition error on speech-based retrieval. She has participated as both researcher and research coordinator in a number of projects including the EU projects MultiMatch and SHARE.

Part II: Video Search Engines

In this part of the tutorial we focus on the challenges in video search, present methods how to achieve state-of-the-art performance, and indicate how to obtain improvements in the near future. Moreover, we give an overview of the latest developments and future trends in the field on the basis of the TRECVID competition – the leading competition for video search engines run by NIST – where we have achieved consistent top performance over the years, including the 2008 and 2009 editions.

The scientific topic of video search is dominated by five major challenges:

- the sensory gap between an object and its many appearances due to the accidental sensing conditions;
- the semantic gap between a visual concept and its lingual representation;
- the model gap between the amount of notions in the world and the capacity to learn them;
- the query-context gap between the information need and the possible retrieval solutions;
- the interface gap between the tiny window the screen offers to the amount of data;

The semantic gap is bridged by forming a dictionary of visual concept detectors. The largest ones to date consist of hundreds of concepts excluding concept-tailored algorithms. It would simply take too long to achieve. Instead, we come closer to the ideal of one computer vision algorithm tailored automatically to the purpose at hand by employing example data to learn from. We discuss the advantages and limitations of a machine learning approach from examples. We show for what type of concept the approach is likely to succeed or fail. In compensation for the absence of concept-specific (geometric or appearance) models, we emphasize the importance of a good feature sets. They form the basis of the observational model by all possible color, shape, texture or structure invariant features help to characterize the concept at hand. Apart from good features, the other essential component is state-of-the-art machine learning in order to get the most out of the learning data.

We integrate the features and machine learning aspects into a complete concept-based video search engine, which has successfully competed in TRECVID. The multimedia system includes computer vision, machine learning, information retrieval, and human-computer interaction. We follow the video data as they flow through the computational processes. Starting from fundamental visual features, covering local shape, texture, color, motion and the crucial need for invariance. Then, we explain how invariant features can be used in concert with kernel-based supervised learning methods to arrive at a concept detector. We discuss the important role of fusion on a feature, classifier, and semantic level to improve the robustness and general applicability of detectors. We end our component-wise decomposition of video search engines by explaining the complexities involved in delivering a limited set of uncertain concept detectors to an impatient user. For each of the components we review state-of-the-art

solutions in literature, each having different characteristics and merits.

Comparative evaluation of methods and systems is imperative to appreciate progress. We discuss the data, tasks, and results of TRECVID, the leading benchmark. In addition, we discuss the many derived community initiatives in creating annotations, baselines, and software for repeatable experiments. We conclude the course with our perspective on the many challenges and opportunities ahead for the multimedia retrieval community.

Organizers/Presenters



Dr. [Cees G.M. Snoek](#) received the M.Sc. degree in business information systems (2000) and the Ph.D. degree in computer science (2005) both from the University of Amsterdam, The Netherlands, where he is currently a senior researcher at the Intelligent Systems Lab Amsterdam. He was a Visiting Scientist at Carnegie Mellon University, USA in 2003 and at UC Berkeley, USA in 2010/2011. His research interests focus on multimedia signal processing and analysis, statistical pattern recognition, content-based information retrieval, social media retrieval, and large-scale benchmark evaluations, especially when applied in combination for video retrieval. He has published over 80 refereed book chapters, journal and conference papers in these fields, and serves on the program committee of several conferences. Dr. Snoek is a lead researcher of the award-winning MediaMill Semantic Video Search Engine, which is a consistent top performer in the yearly NIST TRECVID evaluations. He is initiator and co-organizer of the annual VideOlympics, co-chair of the Multimedia Grand Challenge at ACM Multimedia 2010, and program co-chair of the International Workshop on Content-Based Multimedia Indexing 2010. He is a lecturer of post-doctoral courses given international summer schools and conferences like CVPR and ICCV. He is a member of ACM and IEEE. Dr. Snoek received a young talent (VENI) grant from the Netherlands Organization for Scientific Research in 2008 and a Fulbright Scholarship in 2010.



Prof. dr. ir. [Arnold W.M. Smeulders](#) graduated from Technical University of Delft in physics in 1977 (M.Sc.) and in 1982 from Leyden University in medicine (Ph.D.) on the topic of visual pattern analysis. In 1994, he became full professor in multimedia information analysis at the University of Amsterdam. He has an interest in cognitive vision, content-based image retrieval, the picture-language question as well as in systems for the analysis of video. He has written over 250 papers in refereed journals and conferences. He received a Fulbright grant at Yale University in 1987, and a visiting professorship at the City University Hong Kong in 1996, and again at Tsukuba Japan in 1998. In 2000, he was elected fellow of International Association of Pattern Recognition. He was associated editor of IEEE Transactions PAMI. Currently he is associated editor of the International Journal for Computer Vision as well as the IEEE Transactions Multimedia. He is a member of the steering committee of the IEEE's International Conference on Multimedia and Expo series. He participates in the DELOS and MUSCLE networks of excellence of the EU. He was keynote speaker and chairman of the program committee of conferences including the IEEE Multimedia conference in Florence in 1999, ICIP 2000, CVPR in 2001 and CIVR in 2004 in Dublin. He was general chair of ICME2005 in Amsterdam. In 1996, he was treasurer of the Faculty and director of the Informatics Institute at the University of Amsterdam. Currently, he is scientific director of the Intelligent Systems Lab Amsterdam of 65 staff members, the MultimediaN national public-private partnership of 30 institutions and companies, and of the national research school ASCI. He has graduated 32 PhD-students.

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Scale Social Media Data

T03 – Understanding Multimedia Content Using Web Scale Social Media Data

Nowadays, increasingly rich and massive social media data (such as texts, images, audios, videos, blogs, and so on) are being posted to the web, including social networking websites (e.g., MySpace, Facebook), photo and video sharing websites (e.g., Flickr, YouTube), and photo forums (e.g., Photosig.com and Photo.net). Recently, researchers from multidisciplinary areas have proposed to use data-driven approaches for multimedia content understanding by leveraging such unlimited web images and videos as well as their associated rich contextual information (e.g., tag, comments, category, title and metadata). In our three hour tutorial, we plan to introduce the important general concepts and themes of this timely topic. We will also review and summarize the recent multimedia content analysis methods using web-scale social media data as well as present insight into the challenges and future directions in this area. Moreover, we will also show extensive demos on image annotation and retrieval by using rich social media data.

Outline

1. Introduction of the rapid advance of Web 2.0
2. Data driven approaches
 - Image annotation by mining image search results
 - Gigantic image collections and their applications in computer vision and multimedia
 - Scene completion, geotagging, and photo tourism using millions of photographs
3. Machine Learning Methods for Improving the Performance
 - Semi-supervised learning in gigantic image collections
 - Distance matrix learning to reduce semantic gap for image retrieval
 - Transfer learning for consumer image and video understanding
 - Tag refinement and Flickr distance
 - Other machine learning methods (e.g., active learning, online learning and multiple-label learning)
4. Indexing techniques for accelerating the search process
 - Global feature based approaches: Small Codes and Spectral Hashing
 - Local feature based approaches: bag-of-words model, Hamming Embedding, Bundling feature based approach, image decomposition model

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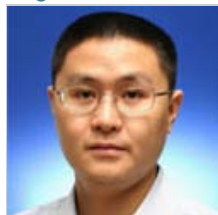
5. Challenges and Future Directions

- Indexing methods for speed
- Machine learning methods that handle semantic gap and noise
- Region and object based techniques

Audience

This tutorial is at introductory/intermediate level and it is open for all the audiences.

Organizers/Presenters



Dong Xu is currently an assistant professor at Nanyang Technological University at Singapore. He received the B.Eng. and PhD degrees from University of Science and Technology of China, in 2001 and 2005, respectively. During his PhD study, he worked at Microsoft Research Asia and The Chinese University of Hong Kong for more than two years. He also worked at Columbia University for one year as a postdoctoral research scientist. His research focuses on new theories, algorithms and systems for intelligent processing and understanding of visual data such as images and videos. He has published more than 35 papers in top venues including T-PAMI, T-IP, T-CSVT, CVPR, ACM MM, ICML and IJCAI.

He was co-author (with his PhD student Lixin Duan) of a paper that won the Best Student Paper Award in the IEEE International Conference on Computer Vision and Pattern Recognition 2010. He is an associate editor of Neurocomputing (Elsevier) and he is an editorial board member of Journal of Multimedia (Academy). He has served as the guest editors of three special issues on video and event analysis in T-CSVT, CVIU and PRL. He has also served as the workshop co-chair of The ACM SIGMM Workshop on Social Media and The IEEE ICME Workshop on Visual Content Identification and Search, a Track Chair of ICME 2009, and a Theme Chair of PSIVT 2009.



Lei Zhang is a lead researcher in the Web Search & Mining Group at Microsoft Research Asia in Beijing, and an adjunct professor of Tianjin University. He currently directs a team pursuing new research directions on social media search. Team projects include multimedia content analysis, web-scale image annotation, and information mining for travel search. Results are targeted toward new advanced services in the delivery of intelligence and insight to Web users. He is an IEEE and ACM member, and has served as program co-chair of MMM 2010, and served on international conference program committees, including ACM Multimedia, WWW, SIGIR, WSDM, ICME, MMM, etc. He is the author or co-author of

more than 80 published papers in fields such as content-based image retrieval, computer vision, web search and information retrieval. He also holds 11 U.S. patents for his innovation in face-detection, red-eye reduction and image retrieval technologies. He earned a B.S. and M.S. in Computer Science from Tsinghua University, in 1993 and 1995. After two years working in industry, he later returned to Tsinghua University, and received his PhD degree in Computer Science in 2001.



Jiebo Luo is a Senior Principal Scientist with Kodak Research Laboratories, Rochester, New York. He received his Bachelor's degree from the University of Science and Technology of China in 1989 and his PhD degree in electrical engineering from the University of Rochester in 1995. His research interests include image processing, pattern recognition, computer vision, computational photography, multimedia data mining, and ubiquitous computing. He has authored more than 150 technical papers and holds 50 issued US patents. Dr. Luo is the Editor-in-Chief of the Journal of Multimedia. He also has served on the editorial boards of the IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI), the

IEEE Transactions on Multimedia (TMM), the IEEE Transactions on Circuits and Systems for Video Technology (TCSVT), Pattern Recognition (PR), Machine Vision and Applications (MVA), and Journal of Electronic Imaging. He has been involved in organizing numerous leading technical conferences sponsored by IEEE, ACM, and SPIE. Dr. Luo is a Kodak Distinguished Inventor, a Fellow of SPIE, and a Fellow of IEEE.

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Networks

T05 – Mobile Video Streaming in Modern Wireless Networks

Modern mobile devices, such as laptops, PDAs (Personal Digital Assistants), smart phones, and PMPs (Portable Media Players), have evolved to powerful mobile computers and can render rich multimedia content. Increasingly more users use mobile devices to watch videos streamed over wireless networks, and they demand more content at better quality. For example, market forecasts reveal that mobile video streaming, such as mobile TV, will catch up with gaming and music, and become the most popular application on mobile devices: more than 140 million subscribers worldwide by 2011. In this tutorial, we will present different approaches to deliver multimedia content over various wireless networks to many mobile users. We will study and analyze the main research problems in modern wireless networks that need to be addressed in order to enable efficient mobile multimedia services. The tutorial will cover common research problems in wireless networks such as HSDPA (High-Speed Downlink Packet Access), MBMS (Multimedia Broadcast Multicast Services) extension of cellular networks, WiMAX (Worldwide Interoperability for Microwave Access), LTE (Long Term Evolution), DVB-H (Digital Video Broadcasting – Handheld), and ATSC M/H (Advanced Television Systems Committee – Mobile/ Handheld). After giving the preliminaries of the considered wireless network standards, we will focus on several important research problems and present their solutions in details. These research problems include: (i) maximizing energy saving of mobile receivers, (ii) maximizing bandwidth utilization of wireless networks, (iii) minimizing stream switching time, and (iv) supporting heterogeneous mobile receivers. Finally, we will discuss open problems and future research directions in mobile multimedia.

Course outline

This tutorial consists of five parts. We first give a high-level overview on mobile video streaming systems, and present the leading-edge wireless networks. We then present the challenges in designing and implementing mobile video streaming systems. This is followed by discussion on concrete research problems and recently proposed solutions for them. We next discuss open research problems, and conclude the tutorial with outlook.

Introduction

We present a simple model for mobile video streaming systems, which abstracts away the common components to enable efficient mobile video streaming. We then specialize this model to several modern wireless networks, including HSDPA, MBMS extension of cellular networks, WiMAX, LTE, DVB-H, MediaFLO, and ATSC M/H. We then present the advantages/disadvantages of mobile video streaming over each of the considered wireless networks. Our comparison concentrates on their architectures, protocols,

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operation, deployment cost, and future potential. Our comprehensive comparison allows audience to understand the merits of individual wireless networks, and enables them to pick the wireless network that is most suitable to their needs. More importantly, our introduction clearly identifies the common components of all wireless networks. This enables general discussions on challenges and solutions in the rest of our tutorial, which can be readily applied to various wireless networks.

Challenges

We first discuss general challenges in multimedia wireless networks. For example, mobile video streaming systems need to cope with high error rates in wireless networks, because wireless channels are vulnerable to noise, fading, shadowing, and interference. In addition, some wireless networks deploy smaller cells to enable frequency reuse for higher spectrum efficiency. In these wireless networks, mobile video streaming systems must consider mobility and handoffs for mobile users to roam among cells. We also present challenges on providing good video streaming Quality-of-Experience (QoE) in mobile video streaming systems. The considered challenges can be classified into two groups: (i) user perspective and (ii) service provider perspective. User perspective challenges include optimizing streaming quality, energy saving, channel switching delay, and supporting heterogeneity. Streaming quality refers to smooth video playout on all mobile devices, which is only possible if video data are delivered on time without overflowing receiving buffer on mobile devices. Energy saving refers to how much time each mobile device can turn off its receiving circuit in order to conserve energy and prolong watch time. Channel switching delay is the time that a user waits before s/he starts viewing a selected video stream when a change of video stream is requested by that user. Supporting heterogeneity means allowing mobile users to watch the same video channels using mobile devices with heterogeneous resources, such as screen resolution, decoder capability, and battery level. Provider perspective problems include bandwidth efficiency and implementation complexity. Bandwidth efficiency refers to the number of video streams that can be concurrently streamed at a quality no worse than a given target quality within a bandwidth limitation. Implementation complexity considers the efforts to implement video encoders, transcoders, burst transmission schedulers, base stations, and network planning and deployment.

Problems and Recent Research Advances

We next discuss concrete research problems and present recently proposed solutions to them. These will include:

- Maximizing energy saving of mobile receivers
- Maximizing bandwidth utilization of wireless networks
- Minimizing stream switching time
- Supporting heterogeneous mobile receivers.

Open Research Problems

Several issues of mobile video streaming systems have not yet been rigorously studied. We will present these open problems. For example, we briefly describe an open problem of designing a hybrid streaming network in the following, while more open problems will be discussed in the tutorial. To minimize bandwidth requirements, depending on the number of receivers for individual videos, some videos may better be broadcast, while others may be more suitable to be unicast. For illustration, consider a video stream requested by a single mobile user, devoting a channel in broadcast networks to it may not be bandwidth efficient. In such scenario, streaming using unicast networks is more efficient. Therefore, hybrid unicast-broadcast networks lead to better bandwidth efficiency. Several works in the literature investigate the potential benefits of building such hybrid networks. However, several design challenges in such hybrid networks remain open.

Conclusions and Outlook

We will summarize our tutorial and review the most important take-aways. Moreover, we will give service providers some guidelines on choosing the wireless networks that are suitable to them. We believe our tutorial will largely simplify the future design and implementation of mobile video streams over modern wireless networks.

Audience

The tutorial discusses challenges and solutions in cutting-edge wireless networks and will attract both R&D engineers and academic scholars. This is a self-contained tutorial targeting intermediate and advanced audience. It will be of interest to researchers, graduate students, and engineers interested in video streaming to mobile devices.

Organizers/Presenters



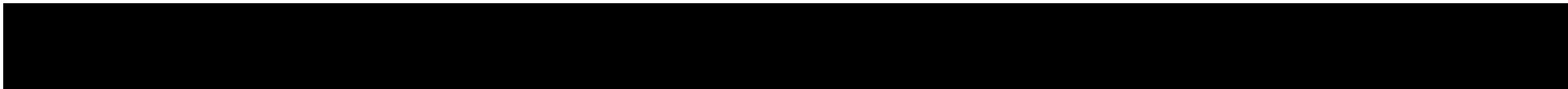
[Mohamed Hefeeda](#) received the Ph.D. degree from Purdue University, West Lafayette, IN, USA in 2004, and the M.Sc. and B.Sc. degrees from Mansoura University, Egypt in 1997 and 1994, respectively. He is an assistant professor in the School of Computing Science, Simon Fraser University, Surrey, BC, Canada, where he leads the Network Systems Lab. His research interests include multimedia networking over wired and wireless networks, peer-to-peer systems, network security, and wireless sensor networks. He has co-authored more than 60 publications in reputable journals and conferences in the past five years, many of them on multimedia streaming to wired and wireless receivers. His paper on the hardness of optimally broadcasting multiple video streams with different bit rates won the Best Paper Award in the IEEE Innovations 2008 conference. In addition to publications, he and his students develop actual systems, such as PROMISE, pCache, svcAuth, pCDN, and mobile TV testbed, and contribute the source code to the research community. The mobile TV testbed software developed by his group won the Best Technical Demo Award in the ACM Multimedia 2008 conference. His mobile multimedia streaming research with Cheng-Hsin Hsu, co-presenter of this tutorial, has been featured in multiple local and international news venues, including SFU NEWS, CTV British Columbia, Omni-TV, World Journal News, and ACM Tech News. In addition, a number of patents and commercialization activities based on his mobile multimedia research are being pursued by Simon Fraser University. He serves as the History Preservation Editor of the ACM Special Interest Group on Multimedia (SIGMM) Web Magazine. He has served as the program chair of the ACM International Workshop on Network and Operating Systems Support for Digital Audio and Video (NOSSDAV 2010). In addition, he has served on many technical program committees of major conferences in his research areas, including ACM Multimedia (meta-TPC and TPC), ACM Multimedia Systems, ACM/SPIE Multimedia Computing and Networking (MMCN), IEEE Conference on Network Protocols (ICNP), and IEEE Conference on Communications (ICC). He also has served on the editorial boards of the Journal of Multimedia and the International Journal of Advanced Media and Communication. He is a senior member of IEEE and a member of the ACM Special Interest Groups on Data Communications (SIGCOMM) and Multimedia (SIGMM). More information can be found at <http://www.cs.sfu.ca/~mhefeeda/>.



[Cheng-Hsin Hsu](#) received the Ph.D. degree from Simon Fraser University, Canada in 2009, the M.Eng. degree from University of Maryland, College Park in 2003, and the M.Sc. and B.Sc. degrees from National Chung-Cheng University, Taiwan in 2000 and 1996, respectively. He is a senior research scientist at Deutsche Laboratories, Los Altos, CA, where he leads the New Media research group. His research interests are in the area of multimedia networking and distributed systems. He has published more than 30 papers in leading journals, conference, and workshops. He is on the History Preservation Committee of the ACM Special Interest Group on Multimedia (SIGMM). He served as the Proceeding and Web Chair of the ACM International Workshop on Network and Operating Systems Support for Digital Audio and Video (NOSSDAV 2010). He was on the technical program committees of the ACM International Workshop on Network and Operating Systems Support for Digital Audio and Video (NOSSDAV 2010), the International Conference on Embedded and Multimedia Computing (EMC 2010), and the ACM Workshop on Mobile Video Delivery (MoViD 2010).

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T08 – Immersive Future Media Technologies

From 3D Video to Sensory Experiences

The past decade has witnessed a significant increase in the research efforts around the Quality of Experience (QoE) which is generally referred to as a human-centric paradigm for the Quality of a Service (QoS) as perceived by the (end) user. As it puts the end user in the center stage, it may have various dimensions and one dimension recently gained momentum is 3D video. Another dimension aims at going beyond 3D and promises advanced user experience through sensory effects, both introduced briefly in the following.

3D Video: Stereo and Multi-View Video Technology

3D related media technologies have recently developed from pure research-oriented work towards applications and products. 3D content is now being produced on a wider scale and first 3D applications have been standardized, such as multi-view video coding for 3D Blu Ray disks. This part of the tutorial starts with an overview on 3D in the form of stereo video based systems, which are currently being commercialized. Here, stereo formats and associated coding are introduced. This technology is used for 3D cinema applications and mobile 3DTV environments. For the latter, user requirements and profiling will be introduced as a form to assess user quality of experience. For 3D home entertainment, glasses-free multi-view displays are required, as more than one user will watch 3D content. For such displays, the current stereo solutions need to be extended. Therefore, new activities in 3D video are introduced. These 3D solutions will develop a generic 3D video format with color and supplementary geometry data, e.g. depth maps, and associated coding and rendering technology for any multi-view display, independent of the number of views. As such technology is also developed in international consortia, the most prominent, like the 3D@HOME consortium, the EU 3D, Immersive, Interactive Media Cluster and the 3D video activities in ISO-MPEG are introduced.

Advanced User Experience through Sensory Effects

This part of the tutorial addresses a novel approach for increasing the user experience – beyond 3D – through sensory effects. The motivation behind this work is that the consumption of multimedia assets may stimulate also other senses than vision or audition, e.g., olfaction, mechanoreception, equilibrioception, or thermoception that shall lead to an enhanced, unique user experience. This could be achieved by annotating the media resources with metadata (currently defined by ISO/MPEG as part of the MPEG-V standard) providing so-called sensory effects that steer appropriate devices capable of rendering these effects (e.g., fans, vibration chairs, ambient lights, perfumer, water sprayers, fog machines, etc.). In particular, we will review the concepts and details of the forthcoming MPEG-V standard and present our prototype architecture for the generation, transport, decoding and use of sensory

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effects. Furthermore, we will present details and results of a series of formal subjective quality assessments which confirm that the concept of sensory effects is a vital tool for enhancing the user experience.

Outline

Introduction and Overview (~10min.)

3D Video: Stereo and Multi-View Video Technology (~90min)

- User Requirements for 3D video technologies
- Stereo Video solutions for 3D cinema and mobile applications
- User experience and profiling for mobile 3DTV
- Format description and coding for stereo and multi-view video technology
- Depth-enhanced 3D video solutions for 3D home entertainment

Advanced User Experience through Sensory Effects (~90min)

- MPEG-V: context and objectives including an overview of all parts.
- In depth review of Part 3 of MPEG-V entitled Sensory Information.
- A test-bed for the quality of multimedia experience evaluation of sensory effects and demonstration.
- How to improve the Quality of Experience through sensory effects? Results from first subjective experiments.
- Conclusions and future work.

Audience

Intermediate, specifically, graduate students and researchers interested in 3D video and sensory experiences.

Organizers/Presenters

[Karsten Müller](#) received the Dipl.-Ing. and Dr.-Ing. degree from the Technical University of Berlin, Germany, in 1997 and 2006 respectively. In 1993 he spent one year studying Electronics and Communication Engineering at Napier University of Edinburgh/Scotland, including a half-year working period at Integrated Communication Systems Inc. in Westwick near Cambridge/England. In this working period he developed software for voice mail systems and statistical analysis of caller data. In 1996 he joined the Heinrich-Hertz-Institute (HHI) Berlin, Image Processing Department, where he is a project coordinator for European projects in the field of 3D media technology. He also co-chairs the European 3D Media Cluster, which serves as a contact gateway for information exchange between the associated European projects and international 3D media activities. His research interests include motion and disparity estimation, 3D media representation and coding, 3D graphics-based scene reconstruction with multi-texture surfaces, and 3D metadata and content description. He has been actively involved in MPEG activities, standardizing the multi-view description for MPEG-7, the view-dependent multi-texturing methods for the 3D scene representation in MPEG4-AFX and contributing to the multi-view video coding process in MPEG4-MVC and 3D Video. In recent projects he was involved in research and development of traffic surveillance systems and visualization of multiple-view video, 3D scene reconstruction, object segmentation, tracking and 3D reconstruction, 3D scene and object representation and interactive user navigation in 3D environments. Currently, he is a Project Manager for European projects in the field of 3D video technology and multimedia content description. He is senior member of the IEEE.

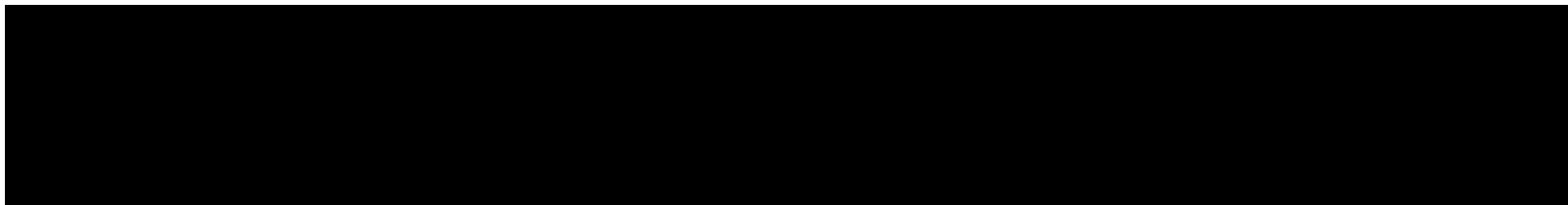
[Christian Timmerer](#) received his M.Sc. (Dipl.-Ing.) in January 2003 and his Ph.D. (Dr.techn.) in June 2006 (for research on the adaptation of scalable multimedia content in streaming and constraint environments) both from the Klagenfurt University. He joined the Klagenfurt University in 1999 and is currently a Assistant Professor (Ass.-Prof.) at the Department of Information Technology (ITEC) – Multimedia Communication Group. His research interests include the transport of multimedia content, multimedia adaptation in constrained and streaming environments, distributed multimedia adaptation, and QoS/QoE. He has published more than 50 papers (incl. book chapters and tutorials) in these areas and the general chair of WIAMIS2008. Finally, he is an editorial board member of the Encyclopedia of Multimedia, ACM/Springer International Journal on Multimedia Tools and Applications (MTAP), and associate editor for IEEE Computer Science Computing Now. He has been actively participating in several EC-funded projects, notably the FP6-IST-DANAE (2004-2006), FP6-IST-ENTHRONE (2006-2008), FP7-ICT-P2P-Next (2008-2012), and FP7-ICT-ALICANTE (2010-2013) projects. Dr. Timmerer participated in the work of ISO/MPEG for several years, notably as the head of the Austrian delegation, coordinator of several core experiments, co-

chair of several ad-hoc groups, and as an editor for Parts 7 and 8 of MPEG-21, Digital Item Adaptation and Reference Software for which he received ISO/IEC certificates. His current contributions are in the area of the MPEG Extensible Middleware (MXM), MPEG-V (Media Context and Control), Advanced IPTV Terminal (AIT), and MPEG Media Transport (MMT) for which (i.e., MXM and MPEG-V) he also serves as an editor. Publications and MPEG contributions can be found under <http://research.timmerer.com>.

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T09 – Modeling Human Behavior with Mobile Phones

In just a few years, mobile phones have emerged as the ultimate multimedia device. Smartphones allow us to take pictures, listen to music, watch videos, interact with the physical world through GPS, communicate via calls, SMS, or MMS, and browse the web. Given their ubiquity, mobile phones have become the most natural device for multimedia consumption, production, and interaction, but there is much more to it. Smartphones can constantly sense people’s location via GPS or cell tower connectivity, motion through accelerometers, proximity via Bluetooth, and communication through call and SMS logs, and thus represent the most accurate and non-intrusive current means of tracing real-life human activities. Furthermore, all this information, as never before, is being generated at massive scales. It is therefore not surprising that the understanding of personal and social behavior from mobile sensor data at large-scale, where population of cell phone users are analyzed both as individuals or groups over possibly long periods of time, has emerged as a frontier domain in computing. This research domain has been recognized as having high potential impact in real life, whether it is our personal life, business, or government. With appropriate privacy-protection mechanisms in place, the use of mobile phones as part of computational methods to analyze people’s routines and relations opens the possibility to new forms of information access, healthcare, and creative expression. Beyond applications, many of the fundamental scientific questions have profound value on their own, as part of an emerging body of work dubbed by some as computational social science.

The research in this domain is currently scattered over several communities, including ubiquitous and wearable computing, human-computer interaction, multimedia, machine learning, and network science. Each of these communities has begun to analyze specific aspects of this rich domain with different emphasis, and often with disparate methodological tools. Beyond the diversity of communities, there is a divide regarding the definition of the fundamental research questions and how to approach them. The tutorial aims at presenting and discussing the state-of-the-art in this domain to the ACM MM community, traditionally open to new ideas.

Outline

The tutorial has two main objectives: to present the scientific and technological state-of-the-art in mobile phone-based modeling of large-scale human behavior from a coherent perspective; and to motivate further work in this domain by the multimedia community by discussing both the most important lessons learned so far and the variety of problems that remain open. The tutorial is organized around several topics including: sensor data on mobile phones; interacting with mobile phones; mobile sensing in real life; privacy issues, models to characterize individual and community behavior from single and multiple data sources; large-scale

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research resources; and open problems and opportunities. The tutorial will consist of lectures accompanied by a variety of examples and demos to illustrate the discussed concepts, models, and systems. The lectures will also contain pointers to the appropriate literature for further study.

Audience

The tutorial is intended for graduate students and researchers in areas related to ACM MM who are interested in learning about the state-of-the-art in smartphone-based modeling of human behavior from a coherent perspective. Given the current fragmentation of the research in this domain, both young and seasoned researchers might benefit from the exposure of fairly recent concepts under a consistent framework. The tutorial aims at introducing concepts and open perspectives that motivate further work in this domain, ranging from fundamentals to applications and systems.

Organizers/Presenters



Daniel Gatica-Perez is a Senior Researcher at Idiap Research Institute, Switzerland, where he directs the Social Computing Group, developing computational models to analyze human behavior from sensor data. His research integrates methods from multimedia signal processing and information systems, machine learning, ubiquitous computing, and elements from social sciences to address questions related to the discovery, recognition, and prediction of behavior of individuals, groups, and communities in real life. His recent work has studied several social interaction scenarios, including populations of cell phone users in urban environments, small groups at work in multisensor spaces, and on-line communities in web social media. His research has been supported by the Swiss and the US governments, the European Commission, and industry. He currently serves on the Editorial Board of the IEEE Transactions on Multimedia, the Journal of Ambient Intelligence and Smart Environments, Image and Vision Computing, and Machine Vision and Applications, and was Guest Co-Editor of the IEEE Computer Magazine Special Issue on Human-Centered Computing. He got a PhD in Electrical Engineering from the University of Washington in 2001, receiving the Yang Research Award for his doctoral research. He is an active member of the multimedia community, recently serving as Vice Chair of the IEEE Int. Conf. on Multimedia (ICME), Program Co-Chair of the ACM. Int. Conf. on Image and Video Retrieval (CIVR), Program Co-Chair of the Int. Conf. on Multimodal Interfaces (ICMI), and Short-Paper Chair of the Human-Centered Track at ACM MM.

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T10 – Human-Centered Multimedia Systems

Organizers

[Nicu Sebe](#), University of Trento (Italy) and [Alejandro \(Alex\) Jaimes](#), Yahoo! Research (Spain) and [Hamid Aghajan](#), University of Stanford.

I. Synopsis

This tutorial will focus on technical analysis and interaction techniques formulated from the perspective of key human factors in a user-centered approach to developing multimedia systems. The tutorial will take a holistic view on the research issues and applications of Human-Centered Systems, focusing on three main areas:

1. multimodal interaction: visual (body, gaze, gesture) and audio (emotion) analysis;
2. image indexing, and retrieval: user behavior, context modeling, cultural issues, and machine learning for user-centric approaches;
3. multimedia data: conceptual analysis at different levels (feature, cognitive, and affective).

This full-day tutorial will consist of two parts: the first half will consist of presentations by the instructors, and the second part will consist of practical workgroup activities.

II. Motivation

Multimedia and Computer Vision play a fundamental role in many new types of interfaces and application areas (multimodal and attentive interfaces, applications such as surveillance, medicine, art, etc.) in which humans play a central role. This implies that building multimedia systems (e.g., for human-computer interaction, etc.) lies at the crossroads of many research areas (psychology, artificial intelligence, pattern recognition, multimedia, etc.). Although many existing multimedia systems were designed with human uses in mind, many of them are far from being user friendly or are rooted on real-world human-needs (few existing systems can be considered “Human-Centered”). What are the current trends in computing and what can the scientific/engineering community do to effect a change for the better? On one hand, the fact that computers are quickly becoming integrated into everyday objects (ubiquitous and pervasive computing) implies that effective natural human-computer interaction is becoming critical (in many applications, users need to be able to interact naturally with computers the way face-to-face human-human interaction takes place). On the other hand, the wide range of applications that use multimedia, and the amount of multimedia content currently available, imply that building successful multimedia applications requires a deep understanding of multimedia content. The success of human-centered multimedia systems, therefore, depends highly on two joint aspects: (1) the

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way humans interact naturally with such systems (using speech and body language) to express emotion, mood, attitude, and attention, and (2) the human factors that pertain to multimedia data (human subjectivity, levels of interpretation).

In this tutorial, we take a holistic approach to developing human-centered multimedia systems. We aim to identify the important research issues, and to ascertain potentially fruitful future research directions in relation to the two aspects above. In particular, we introduce key concepts, discuss technical approaches and open issues in three areas:

1. multimodal interaction: visual (body, gaze, gesture) and audio (emotion) analysis;
2. image indexing, and retrieval: user behavior, context modeling, cultural issues, and machine learning for user-centric approaches;
3. multimedia data: conceptual analysis at different levels (feature, cognitive, and affective).

The focus of the tutorial, therefore, is on technical analysis and interaction techniques formulated from the perspective of key human factors in a user-centered approach to developing Human-Centered Multimedia Systems.

III. Benefits & List of Topics

This tutorial will enable the participants to understand key concepts, state-of-the-art techniques, and open issues in the areas described below. The tutorial will cover parts of the following topic areas:

- Vision for multimodal interaction: overview of techniques and state of the art in body tracking, gaze detection, and gesture recognition.
- Multimodal emotion recognition for affective retrieval and in affective interfaces: approaches to multimedia content analysis and interaction that use speech and facial expression recognition.
- Machine learning: adaptive multimodal interfaces and learning of visual concepts from user input for automatic detection and recognition (detection of scenes, objects, or events of interest).
- Multimodal fusion: technical approaches and issues in combining multiple media (e.g., audio-visual) for multimodal interaction and multimedia analysis.
- Multimedia indexing: an overview of how humans perceive, index, organize, and search multimedia content. Discussion of studies in art, psychology, library sciences, and the development of conceptual frameworks for computational frameworks.
- Human issues: the role of memory, subjectivity, culture, context, and examples of technical approaches to multimedia analysis and interaction that consider these factors.
- Applications: traditional and emerging application areas will be described with specific examples in smart conference room research, arts, interaction for people with disabilities, entertainment, and others.

IV. Intended Audience

The tutorial is intended for Ph.D. students, scientists, engineers, application developers, computer vision specialists and others interested in the areas of information retrieval and human-computer interaction. A basic understanding of image processing and machine learning is a prerequisite.

V. Tentative Schedule & Format

Duration: full-day

Format: the tutorial will consist of two parts:

1. Morning session in which there will be presentations by the organizers and will encourage discussion by the attendees.
2. Afternoon session in which initially the participants will be asked to break into groups and focus on a particular theme or application in HCC. At the end of the thematic break out group sessions, each group will make a presentation. After this, new break out groups will be formed, in which the goal will be to think of the processes or methodologies presented and discussed during the morning session. The outcomes of this second stage will also be presented.

A tentative program of the tutorial is as follows:

09:00 – 10:20 Morning session: presentations by the organizers

10:20 – 10:40 Break

10:40 – 12:00 Morning session: presentation by the organizers

14:00 – 15:20 Thematic break-out group meetings & presentations (3 to 4 groups, each given a scenario and a task)

15:20 – 15:40 Break

15:40 – 17:00 Process break-out groups (1 hour, 3 to 4 groups, asked to “abstract” a process based on the presentations).

Final presentations & summary (20 minutes)

VI. Materials

This tutorial has been specifically designed for the audience of ACM Multimedia –while the focus of the tutorial will be technical, we aim at giving participants a broad view of research and important topics for developing Human-Centered Multimedia Systems.

Materials will include an overview of technical approaches for Vision-Based Human-Computer Interaction (largely from our 2007 CVIU survey), as well as materials from numerous sources (our ACM Multimedia 2006 paper discusses some sources we will use; articles from the IEEE Computer Special Issue on Human-Centered Computing that we co-edited, etc.).

VII. Related Tutorials

This tutorial differs from the previous tutorials (ICCV 2009, ICCV 2007, ACM MM 2007, etc.) in that we will include newer research results, demonstrations, and examples. We have also improved the structure and propose now a practical approach in the second half in which the audience is asked to actively participate and contribute to the discussion on the subject of the tutorial.

VIII. Organizers and Backgrounds

Nicu Sebe, University of Trento, Italy, email: sebe@disi.unitn.it

Alejandro (Alex) Jaimes, Yahoo! Research, Spain, email: ajaimes@yahoo-inc.com

Bios

[Nicu Sebe](#) received his PhD degree in 2001 from University of Leiden, The Netherlands. He is with the Faculty of Cognitive Sciences, University of Trento, Italy, where he is leading the research in the areas of multimedia information retrieval and human-computer interaction in computer vision applications. He is the author of *Robust Computer Vision—Theory and Applications* (Kluwer, April 2003) and of *Machine Learning in Computer Vision* (Springer, May 2005). He was involved in the organization of the major conferences and workshops addressing the computer vision and human-centered aspects of multimedia information retrieval, among which as a General Co-Chair of the IEEE Automatic Face and Gesture Recognition Conference, FG 2008, ACM International Conference on Image and Video Retrieval (CIVR) 2007, and WIAMIS 2009 and as one of the initiators and a Program Co-Chair of the Human-Centered Multimedia track of the ACM Multimedia 2007 conference. He is the general chair of ACM CIVR 2010 and a track chair of ICPR 2010. He has served as the guest editor for several special issues in IEEE Computer, Computer Vision and Image Understanding, Image and Vision Computing, Multimedia Systems, and ACM TOMCCAP. He has been a visiting professor in Beckman Institute, University of Illinois at Urbana-Champaign and in the Electrical Engineering Department, Darmstadt University of Technology, Germany. He was the recipient of a British Telecom Fellowship. He is the co-chair of the IEEE Computer Society Task Force on Human-centered Computing and is an associate editor of *Machine Vision and Applications*, *Image and Vision Computing*, *Electronic Imaging* and of *Journal of Multimedia*.

[Alejandro Jaimes](#) is Senior Research Scientist at Yahoo! Research where he is leading new initiatives at the intersection of web-scale data analysis and user experience, with a particular focus on cultural differences in the context of social media and user engagement (social network analysis, data mining, user modeling). Dr. Jaimes is the founder of the ACM Multimedia Interactive Art program, and he is Director at Large for the Arts for ACM SIG Multimedia. He is Industry Track chair for ACM Recommender Systems 2010, was Industry Track chair for UMAP 2009, panels chair for KDD 2009, and Late-Breaking Results co-chair for WSDM 2009. He was program co-chair of ACM Multimedia 2008, co-editor of the IEEE Trans. on Multimedia Special issue on Integration of Context and Content for Multimedia Management (2008), and a founding member of the IEEE CS Taskforce on Human-Centered Computing. His work has led to over 60 technical publications in international conferences and journals, and to numerous contributions to MPEG-7. He has been granted several patents, and serves in the program committee of several international conferences (WWW, ACM Multimedia, CVPR, ICME, ICIP, CIVR, Creativity and Cognition, ICCV and ECCV Workshops on HCI, etc.). He has been an invited speaker at KDD 2009 and ECML-PKDD 2010 (Industry tracks), ACM Recommender Systems 2008 (panel), DAGM 2008 (keynote), 2007 ICCV Workshop on HCI, and several others. Dr. Jaimes received a Ph.D. in Electrical Engineering (2003) and a M.S. in Computer Science from Columbia U. (1997) in NYC. Before joining Yahoo! Dr. Jaimes managed the User Modeling and Data Mining group at Telefónica Research in Madrid. Prior to that Dr. Jaimes

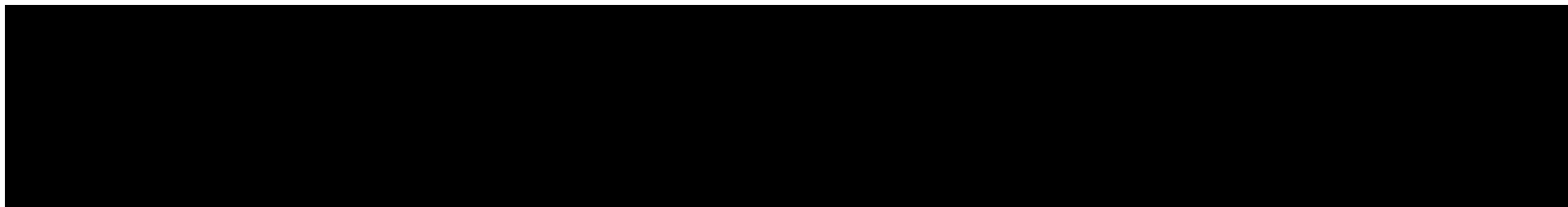
was Scientific Manager at IDIAPEPFL (Switzerland). He was also previously at Fuji Xerox (Japan), IBM TJ Watson (USA), IBM Tokyo Research Laboratory (Japan), Siemens Corporate Research (USA), and AT&T Bell Laboratories (USA).

[Hamid Aghajan](#) is a professor of Electrical Engineering (consulting) at Stanford University since 2003, where he leads the Ambient Intelligence Research lab. . Areas of research in his group consist of multi-camera networks and human interfaces for smart, vision-based reasoning environments, with application to smart homes, occupancy-based services, assisted living and well being, smart meetings, and avatar-based communication and social interactions. Hamid is co-editor-in-chief of the Journal of Ambient Intelligence and Smart Environments. He has co-authored 4 edited volumes on: Human-centric Interfaces for Ambient Intelligence, Multi-Camera Networks – Principles and Applications, and Handbook of Ambient Intelligence and Smart Environments, and Behaviour Monitoring and Interpretation. He has been editorial board member of the book series on Artificial Intelligence and Smart Environments by IOS Press, associate editor of Machine Vision and Applications, guest editor of IEEE J-STSP special issue on Distributed Processing in Vision Networks, guest editor of CVIU special issue on Multimodal Sensor Fusion, and guest editor of IEEE Trans. on Multimedia special issue on Affective Multimodal Interfaces. Hamid has been co-founder and technical co-chair of the first International Conference on Distributed Smart Cameras (ICDSC 2007), and general co-chair of ICDSC 2008. He has organized short courses on Human-centered Vision Systems and Multi-Camera Networks at CVPR 2007,

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Preservation

WS01 – eHeritage 2010: 2nd ACM Workshop on eHeritage and Digital Art Preservation

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9:15 – 9.30

OPENING SESSION

Chairs

Olga Bellon (Universidade Federal do Parana, Brazil)
 Ilan Shimshoni (University of Haifa, Israel)
 Matteo Dellepiane (ISTI-CNR Pisa, Italy)

9:30 – 10.30

KEYNOTE TALK

Chair

Olga Bellon (Universidade Federal do Parana, Brazil)
E-puzzling: 2d and 3d Reconstruction Techniques for Cultural Heritage Fragments
 Prof. Robert Sablatnig (Vienna University of Technology)

COFFEE BREAK

11:00 – 13:00

ORAL SESSION 1

Acquisition and visualization of Archaeological data
 Chair

Ilan Shimshoni (University of Haifa, Israel)

The spherical photogrammetry as metric recording instrument for Cultural Heritage.

The san Galgano Abbey, Siena, Italy and the Roman Theatre, abraha, Libya.

Gabriele Fangi (Università Politecnica delle Marche, Italy)

Digital preservation of A Famosa Fortress in Malays

Mohd Izani (University of Strathclyde, United Kingdom)

Alan Bridges (University of Strathclyde)

Aishah Razak (MultiMedia University, Malaysia)

Barnabas Calder (University of Strathclyde, United Kingdom)

Michael Grant (University of Strathclyde, United Kingdom)

LUNCH BREAK

14:00 – 16:00

ORAL SESSION 2

Historical data and Intangible Heritage

Chair

Matteo Dellepiane (ISTI-CNR Pisa, Italy)

A study of gradual transition detection in historic film material

Markus Seidl (University of Applied Sciences St. Pölten, Austria)

Matthias Zeppelzauer (Vienna University of Technology, Austria)

Christian Breiteneder (Vienna University of Technology, Austria)

The restoration of single channel audio recordings based on Non-negative Matrix Factorization and perceptual suppression rule

Giuseppe Cabras (University of Udine, Italy)

Sergio Canazza (University of Padova, Italy)

Pier Luca Montessoro (University of Udine, Italy)

Roberto Rinaldo (University of Udine, Italy)

Tunepal: The traditional musician's toolbox.

Bryan Duggan (Dublin Institute of Technology, Ireland)

Preservation of intangible heritage: A case-study of Indian classical dance

Anupama Mallik (Indian Institute of Technology, India)

Santanu Chaudhuri (Indian Institute of Technology, India)

Hiranmay Ghosh (Tata Consultancy Services, India)

16:00 – 18:00

ORAL SESSION 3

Presentation and fruition of data

Chair

Olga Bellon (Universidade Federal do Parana, Brazil)

Active experience of audiovisual cultural content: The virtual binocular interface

Antonio Camurri (University of Genova, Italy)

Donald Glowinski (University of Genova, Italy)

Gualtiero Volpe (University of Genova, Italy)

Paolo Coletta (University of Genova, Italy)

Corrado Canepa (University of Genova, Italy)

Francesca Cavallero (University of Genova, Italy)

Simone Ghisio (University of Genova, Italy)

A geospatial narrative framework

George V Landon (Eastern Kentucky University, USA)

William Landon (Northern Kentucky University, USA)

Christian Snodgrass (Eastern Kentucky University, USA)

Interactive 3D visualization of natural and cultural assets

Caroline Mendes (Universidade Federal do Parana, Brazil)

Dyego Drees (Universidade Federal do Parana, Brazil)

Luciano Silva (Universidade Federal do Parana, Brazil)

Olga Bellon (Universidade Federal do Parana, Brazil)

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WS02 – ACM Workshop on 3D Object Retrieval

8:45 – 9:00
 OPENING SESSION

9:00 – 10:00
 KEYNOTE TALK

Chair
 Mohamed Doudi, TELECOM Lille1, LIFL, France
Elastic Riemannian Frameworks and Statistical Tools for Shape Analysis
 Anuj Srivastava, Florida State University, USA

COFFEE BREAK

10:30 – 12:00
 ORAL SESSION 1

3-D Object Retrieval and Recognition
 Chair
 Afzal Godil, NIST, USA

3D shape retrieval based on best view selection
 Daniela Giorgi, Consiglio Nazionale delle Ricerche, Italy
 Michela Mortara, Consiglio Nazionale delle Ricerche, Italy
 Michela Spagnuolo, Consiglio Nazionale delle Ricerche, Italy

Single Spin Image-ICP matching for Efficient 3D Object Recognition
 Arvid Halma, TNO Science & Industry, The Netherlands
 Frank ter Haar, TNO Science & Industry, The Netherlands
 Adam van Eekeren, TNO Science & Industry, The Netherlands
 Ernst Bovenkamp, TNO Science & Industry, The Netherlands
 Pieter Eendebak, TNO Science & Industry, The Netherlands

Local Visual Patch for 3D Shape Retrieval
 Hedi Tabia, LAGIS University of Lille, France
 Mohamed Daoudi, TELECOM Lille1, LIFL, France
 Jean-Phillipe Vandeborre, TELECOM Lille1, LIFL, France
 Olivier Colot, LAGIS University of Lille1, France

LUNCH BREAK

14:00 – 16:00

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POSTER SESSION

Chair

Silvia Biasotti, Consiglio Nazionale delle Ricerche, Italy

Elastic Radial Curves to Model 3D Facial Deformations

Hassen Drira, TELECOM Lille1, LIFL, France
Boulbaba Ben Amor, TELECOM Lille1, LIFL, France
Mohamed Daoudi, TELECOM Lille1, LIFL, France
Anuj Srivastava, Florida State University, USA

Recognition of 3D Faces with Missing Parts based on Profile Networks

Stefano Berretti, University of Florence, Italy
Alberto Del Bimbo, University of Florence, Italy
Pietro Pala, University of Florence, Italy

A Benchmark for Best View Selection of 3D Objects

Helin Dutagaci, NIST, USA
Afzal Godil, NIST, USA
Chun Pan Cheung, NIST, USA

Incorporating several features in the protein ray descriptor for more accurate protein 3D structures retrieval

Georgina Mirceva, Faculty of Electrical Engineering and Information Technologies, Skopje, Macedonia
Danco Davcev, Faculty of Electrical Engineering, University "St. Cyril & Methodius", Skopje, Macedonia

Unique Shape Context for 3D data description

Federico Tombari, University of Bologna, Italy
Samuele Salti, University of Bologna, Italy
Luigi Di Stefano, University of Bologna, Italy

Distance Metric Learning and Feature Combination for Shape-Based 3D Model Retrieval

Ryutarou Ohbuchi, University of Yamanashi, Japan
Takahiko Furuya, University of Yamanashi, Japan

Indexing of 3D Models Based on Graph of Surface Regions

Sylvie Philipp-Foliguet, University of Cergy, France
Michel Jordan, Université Cergy-Pontoise, France
Matthias Fuzier Jordan, Université Cergy-Pontoise, France
Philippe Gosselin, CNRS, ENSEA, Univ Cergy-Pontoise

COFFEE BREAK

16:00-18:00

ORAL SESSION 2

3-D Shape Descriptors and Matching

Chair

Stefano Berretti, University of Firenze, Italy

Orientation invariant 3D object Classification using Hough Transform based methods

Jan Knopp, K.U. Leuven, Belgium
Mukta Prasad, BIWI, ETH Zurich, Switzerland
Luc Van Gool, K.U. Leuven, Belgium

3D Face Landmark Labelling

Clement Creusot, University of York, UK
Nick Pears, University of York, UK
Jim Austin, University of York, UK

Shape comparison through mutual distances of real functions

Silvia Biasotti, Consiglio Nazionale delle Ricerche, Italy

Volumetric heat kernel signatures

Dan Raviv, Technion, Israel
Michael Bronstein, Technion – Israel Institute of Technology, Israel
Alex Bronstein, Tel Aviv University, Israel
Ron Kimmel, Technion, Israel

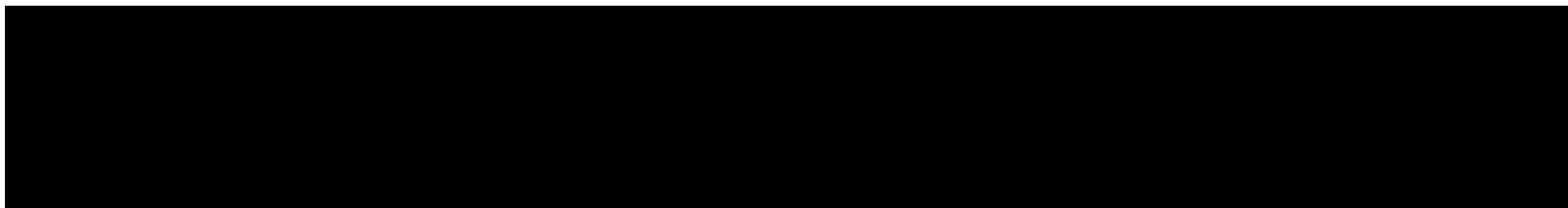
18:00 – 18:15

ROUND TABLE DISCUSSION AND CLOSING

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WS03 – MML10: 3rd ACM Workshop on Machine Learning and Music

8:30 – 10:30

ORAL SESSION 1

Audio Analysis

Chair

Rafael Ramirez, Universitat Pompeu Fabra, Spain

"Copy and scale" method for doing time-localized M.I.R. estimation: application to beat-tracking
 Geoffroy Peeters, IRCAM, France

Predicting Transformed Audio Descriptors: A System Design and Evaluation
 Graham Coleman, Universitat Pompeu Fabra, Spain
 Fernando Villavicencio, Universitat Pompeu Fabra, Spain

Sparse coding for drum sound classification and its use as a similarity measure
 Simon Scholler (Bernstein Center for Computational Neuroscience, Germany)
 Hendrik Purwins, Universitat Pompeu Fabra, Spain

Model-based cover song detection via threshold autoregressive forecasts
 Joan Serrà, University Pompeu Fabra, Spain
 Holger Kantz, Max Planck Institute, Germany
 Ralph G. Andrzejak, University Pompeu Fabra, Spain

COFFEE BREAK

11:00 – 12:30

ORAL SESSION 2

Music Modeling

Chair

Darrell Conklin, Universidad del País Vasco, Spain

Modeling Emotions in Violin Audio Recordings
 Andreas Neocleous, University Pompeu Fabra, Spain
 Rafael Ramirez, University Pompeu Fabra, Spain
 Alfonso Perez, University Pompeu Fabra, Spain
 Esteban Maestre, University Pompeu Fabra, Spain

Evaluating Multiple Viewpoint Models of Tabla Sequences
 Parag Chordia, Georgia Institute of Technology, USA
 Avinash Sastry, Georgia Institute of Technology, USA

Sponsors



Social



ACM Multimedia 2010 Twitter

Aaron Albin, Georgia Institute of Technology, USA

How Sparsely Can a Signal be Approximated while Keeping its Class Identity?

Manuel Moussallam, Telecom ParisTech, France

Thomas Fillon, Telecom ParisTech, France

Gaël Richard, Telecom ParisTech, France

Laurent Daudet, Institut Langevin, France

LUNCH BREAK

14:00 – 16:00

ORAL SESSION 3

Symbolic Music

Chair:

Christina Anagnostopoulou, University of Athens, Greece

Applying Subgroup Discovery for the Analysis of String Quartet Movements

Jonatan Taminau, Vrije Universiteit Brussel, Belgium

Ruben Hillewaere, Vrije Universiteit Brussel, Belgium

Stijn Meganck, Vrije Universiteit Brussel, Belgium

Darrell Conklin, Universidad del País Vasco, Spain

Ann Nowé, Vrije Universiteit Brussel, Belgium

Bernard Manderick, Vrije Universiteit Brussel, Belgium

Comparative pattern analysis of Cretan folk songs

Darrell Conklin, Universidad del País Vasco, Spain

Christina Anagnostopoulou, University of Athens, Greece

Characterisation of Composer Style using High-Level Musical Features

Lesley Mearns, Queen Mary University of London, UK

Dan Tidhar, Queen Mary University of London, UK

Simon Dixon, Queen Mary University of London, UK

Enhancing chord recognition accuracy using web resources

Matt McVicar, University of Bristol, UK

Tijl De Bie, University of Bristol, UK

COFFEE BREAK

16:30 – 18:00

ORAL SESSION 4

Genre Classification

Chair:

José Manuel Iñesta, University of Alicante, Spain

Compressing Lists For Audio Classification

Teppo E. Ahonen, University of Helsinki, Finland

Harmonic and instrumental information fusion for musical genre classification

Tomás Pérez-García, University of Alicante, Spain

Carlos Pérez-Sancho, University of Alicante, Spain

José M. Iñesta, University of Alicante, Spain

Feature Selection in a Cartesian Ensemble of Feature Subspace Classifiers for Music Categorisation

Rudolf Mayer, Vienna University of Technology, Austria

Andreas Rauber, Vienna University of Technology, Austria

Pedro. J. Ponce de León, University of Alicante, Spain

Carlos Pérez-Sancho, University of Alicante, Spain

José M. Iñesta, University of Alicante, Spain

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WS04 – MoViD: ACM Workshop on Mobile Video Delivery

8:30 – 8:40

OPENING SESSION

Chair

Mainak Chatterjee, University of Central Florida, U.S.A.

8:40 – 10:00

ORAL SESSION 1

Mobile Content Distribution

Chair

Igor Curcio, Nokia Research Center, Finland

Optimal Scalable Video Multiplexing in Mobile Broadcast Networks

Mohamed Hefeeda, Simon Fraser University, Canada

Farid Molazem Tabrizi, Simon Fraser University, Canada

Joseph G Peters, Simon Fraser University, Canada

ChengHsin Hsu, Deutsche Telekom R&D Labs, U.S.A.

Model for the Delivery of Interactive Applications over Broadcast Channels

Cyril Concolato, Telecom Paris Tech, France

Jean-Claude Moissinac, Telecom Paris Tech, France

PROMO: Continuous Localized and Profiled Multimedia Content Distribution

Piergiorgio Cremonese, SUPSI, Switzerland

Dario Gallucci, SUPSI, Switzerland

Michela Papandrea, SUPSI, Switzerland

Salvatore Vanini, SUPSI, Switzerland

Silvia Giordano, SUPSI, Switzerland

Market Perspective: Commercial Mobile Video

Anthony Dilliston, MediaMojos, Canada

Chris Voisey, CMS MobileAware, U.S.A.

Richard Moreno, Mitia Inc, U.S.A.

COFFEE BREAK

10:30 – 12:00

KEYNOTE TALK

Chair

Igor Curcio, Nokia Research Center, Finland

Sponsors



Social



ACM Multimedia 2010 Twitter

Challenges of Mobile Multimedia Delivery in Mobile Learning Communities
Prof. Klara Nahrstedt, University of Illinois at Urbana-Champaign

12:00 – 13:00

ORAL SESSION 2

Mobile Video Quality Measurement

Chair

Chenghsin Hsu, Deutsche Telekom Inc. R&D Lab, USA

QoE Measurement of Mobile YouTube Video Streaming

Istvan Ketyko, Ghent University, Belgium

Katrien De Moor, Ghent University, Belgium

Toon De Pessemier, Ghent University, Belgium

Adrián Juan Verdejo, Ghent University, Belgium

Kris Vanhecke, Ghent University, Belgium

Wout Joseph, Ghent University, Belgium

Luc Martens, Ghent University, Belgium

Lieven Demarez, Ghent University, Belgium

Video Network Traffic and Quality Comparison of VP8 and H.264 SVC

Patrick Seeling, University of Wisconsin – Stevens Point, U.S.A.

Frank H.P. Fitzek, Aalborg University, Denmark

Gergő Ertli, Budapest University of Technology and Economics, Hungary

Martin Reisslein, Arizona State University, U.S.A.

Akshay Pulipaka, Arizona State University, U.S.A.

A Complexity-Utility Framework For Modeling Decoding Complexity Towards Optimizing Subjective Quality Of Video For Mobile Devices

Özgür Önür, Middle East Technical University, Turkey

Aydin Alatan, Middle East Technical University, Turkey

LUNCH BREAK

14:30 – 16:10

ORAL SESSION 3

Mobile Streaming and 3D Video

Chair

Mainak Chatterjee, University of Central Florida, U.S.A.

Bottlenecks, Usability Issues and Development Needs in Creating and Delivering News Videos with Smart Phones

Heli Väättäjä, Tampere University of Technology, Finland

Anssi Männistö, University of Tampere, Finland

Scholastic Streaming: Rethinking Mobile Video-On-Demand in a Campus Environment

Jagadeesh M Dyaberi, Purdue University, U.S.A.

Yih-Farn Robin Chen, AT&T Labs, U.S.A.

Rittwik Jana, AT&T Labs, U.S.A.

Bin Wei, AT&T Labs, U.S.A.

Daniel L Stern, AT&T Labs, U.S.A.

Karthik Kannan, Purdue University, U.S.A.

Vijay S Pai, Purdue University, U.S.A.

Geo-Predictive Real-Time Media Delivery in Mobile Environment

Igor D.D. Curcio, Nokia Research Center, Finland);

Vinod Kumar Malamal Vadakital, Tampere University of Technology, Finland);

Miska Hannuksela, Nokia Research Center, Finland

Comparative analysis of occlusion-filling techniques in depth image-based rendering for 3D videos

Federica Battisti, University of Roma TRE, Italy

Relative Importance of Depth Cues on Portable Autostereoscopic Display

Maija Mikkola, Tampere University of Technology, Finland

COFFEE BREAK

16:30 – 18:00

PANEL SESSION

Infrastructure Support for Next Generation Mobile Multimedia Applications

Moderator

Silvia Giordano, SUPSI, Switzerland

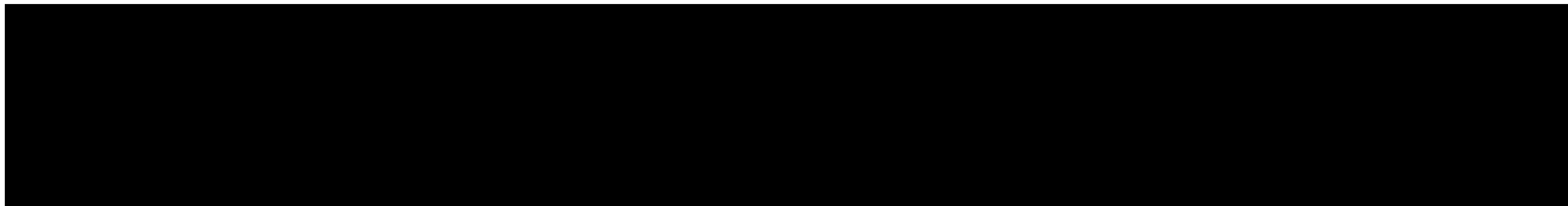
Panelists

Rich Moreno, Mitia Inc., U.S.A.
Igor Curcio, Nokia Research Center, Finland
Paolo Bellavista, University of Bologna, Italy
Roger Zimmerman, National University of Singapore

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25-29th October 2010, Firenze, Italy

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WS05 – WSM2010: 2nd ACM Workshop on Social Media

08:45 – 09:00
OPENING SESSION

09:00 – 09:45
KEYNOTE TALK

Chair
 Susanne Boll, University of Oldenburg, Germany
The You in YouTube
 Dr. Daniel Gatica-Perez, Idiap Research Institute, Switzerland

COFFEE BREAK

10:15 – 11:30
ORAL SESSION 1

Best Paper Candidate Session
 Chair
 Jiebo Luo, Kodak Research Labs, USA

Tag suggestion and localization in user-generated videos based on social knowledge
 Lamberto Ballan, University of Firenze, Italy
 Marco Bertini, Università di Firenze, Italy
 Alberto Del Bimbo, University of Firenze, Italy
 Marco Meoni, University of Firenze, Italy
 Giuseppe Serra, University of Firenze, Italy

Image Tagging and Search – A Gender Oriented Study
 Adrian Popescu, TELECOM Bretagne, France
 Gregory Grefenstette, Exalead, France

Automatic Creation of Photo Books from Stories in Social Media
 Mohammad Rabbath, OFFIS Institute for Information Technology, Germany
 Philipp Sandhaus, OFFIS Institute for Information Technology, Germany
 Susanne Christine Johanna Boll, University of Oldenburg, Germany

11:40 – 12:30
ORAL SESSION 2

Chair
 Roelof van Zwol, Yahoo! Research,
 Santa Clara, CA, USA

Sponsors



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Hyper-Community Detection in the Blogosphere

Thin Nguyen, Curtin University of Technology, Australia
Dinh Q. Phung, Curtin University of Technology, Australia
Brett Adams, Curtin University of Technology, Australia
Truyen Tran, Curtin University of Technology, Australia;
Svetha Venkatesh, Curtin University of Tech., Perth, Australia

Associative Face Co-occurrence Networks for Recommending Friends in Social Networks

Heung-Nam Kim, University of Ottawa, Canada
Jin-Guk Jung, Inha University, Korea
Abdulmotaleb El Saddik, University of Ottawa, Canada

LUNCH BREAK

13:30 – 14:20

ORAL SESSION 3

Chair

Yiannis Kompatsiaris (Informatics and Telematics Institute, Greece)

An Efficient Access Control Method for Multimedia Social Networks

Amit Sachan, Nanyang Technological University, Singapore
Sabu Emmanuel, Nanyang Technological University, Singapore
Mohan Kankanhalli, National University of Singapore, Singapore

User's Privacy in Applications provided through Social Networks

Jaime Delgado, Universitat Politècnica de Catalunya, Spain
Eva Rodriguez, Universitat Politècnica de Catalunya, Spain
Silvia Llorente, Universitat Politècnica de Catalunya, Spain

14:30 – 15:15

KEYNOTE TALK

Chair

Jiebo Luo, Kodak Research Labs, USA

Creating the Perfect Social Video Stream

Dr. Ramesh Sarukkai, Google, USA

COFFEE BREAK

15:45 – 17:00

ORAL SESSION 4

Chair

Susanne Boll, University of Oldenburg, Germany

Online Social Networks for Personal Informatics to Promote Positive Health Behavior

Noreen Kamal, University of British Columbia, Canada
Sidney Fels, UBC, Canada
Kendall Ho, University of British Columbia, Canada

Image-based Dietary Information Mining for Community Creation in a Social Network

Ganhewage C de Silva, University of Tokyo, Japan
Kiyoharu Aizawa, University of Tokyo, Japan

Automatic Video Archaeology: Tracing Your Online Videos

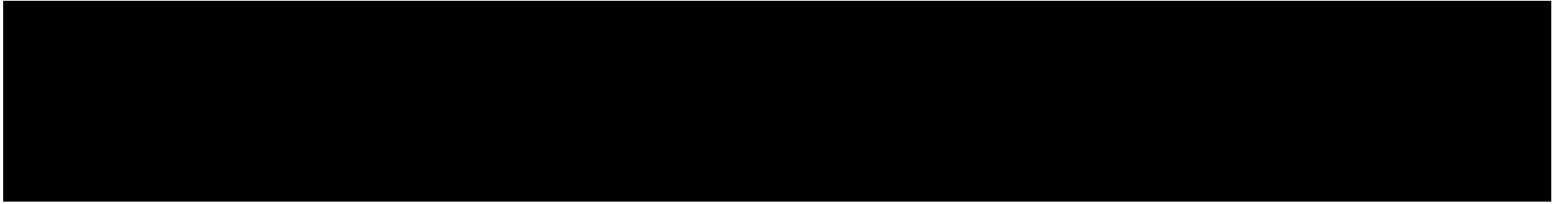
Junge Shen, Xidian University, P.R. China
Tao Mei, Microsoft Research Asia, P.R. China
Xinbo Gao, School of Electronic Engineering, Xidian University, Xi'an 710071, China, P.R. China

17:00 – 17:15

CLOSING REMARK

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WS06 – EIMM10: 2nd ACM Workshop on Events in Multimedia

9.00 – 9.10

OPENING SESSION

9.10 – 10.10

KEYNOTE TALK

Chair

Ansgar Scherp (University of Koblenz-Landau, Germany)

Sensor Nets Discover Search

Alan Smeaton (Dublin City University, IRELAND)

COFFEE BREAK

10.40 – 11.40

ORAL SESSION 1

Event detection from multimedia content

Chair

Mohan Kankanhalli (National University of Singapore, Singapore)

A Logic Programming Approach to Activity Recognition

Alexander Artikis (NCSR “Demokritos”, GR)

Marek Sergot (Imperial College London, UK)

Georgios Paliouras (NCSR Demokritos, GR)

Detecting Events by Clustering Videos from Large Media Databases

Jarmo Makkonen (Tampere University of Technology, FI)

Riitta Kerminen (Tampere University of Technology, FI)

Igor Curcio (Nokia Research Center, FI)

Sujeet Mate (Nokia Research Center, FI) Ari Visa (Tampere University of Technology, FI)

Automatic event-based indexing of multimedia content using a joint content-event model

Nikolaos Gkalelis (Informatics and Telematics Institute, GR)

Vasileios Mezaris (Informatics and Telematics Institute / CERTH, GR)

Yiannis Kompatsiaris (Informatics and Telematics Institute (ITI), GR)

COFFEE BREAK

11.50 – 12.50

KEYNOTE TALK

Chair

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Firenze



Social



ACM Multimedia 2010 Twitter

Ansgar Scherp (University of Koblenz-Landau, Germany)
Events as media and knowledge aggregators
Fausto Giunchiglia (University of Trento, I)

LUNCH BREAK

14.30 – 15.30

ORAL SESSION 2

Event models

Chair

Ramesh Jain (University of California at Irvine, CA, USA)

On the semantics of complex events in videos

Simone Santini (Universidad Autónoma de Madrid, ES)

The Interaction Ontology: low-level cue processing in real-time group conversations

Rene Kaiser (JOANNEUM RESEARCH Forschungsgesellschaft mbH, AT)

Pedro Torres (Goldsmiths College London, UK)

Martin Höffernig (JOANNEUM RESEARCH Forschungsgesellschaft mbH, AT)

STEVIE - Collaborative Creation and Exchange of Events and POIs on a Mobile Phone

Daniel Schmeiß (University of Koblenz-Landau, DE)

Max Braun (University of Koblenz-Landau, DE)

Ansgar Scherp (University of Koblenz-Landau, DE)

Steffen Staab (University of Koblenz-Landau, DE)

COFFEE BREAK

16.00 – 17.00

ORAL SESSION 3

Event-based applications

Chair

Vasileios Mezaris (Centre for Research and Technology Hellas, Greece)

Using Event Representation and Semantic Enrichment for Managing and Reviewing Emergency Incident Logs

Symeon Papadopoulos (Informatics and Telematics Institute (ITI), GR)

Ansgar Scherp (University of Koblenz-Landau, DE)

Neil Ireson (University of Sheffield, UK)

Ioannis Tsampoulatidis (Informatics and Telematics Institute (ITI), GR)

Yiannis Kompatsiaris (Informatics and Telematics Institute (ITI), GR)

Event-Centric Multisource Stream Processing and Multimedia Assimilation For Geospatiotemporal Phenomenon

Ashit Talukder (Jet Propulsion Laboratory, NASA, Pasadena, CA, US)

Detection of Spatial Events in CommonSens

Jarle Sørberg (University of Oslo, NO)

Vera H. Goebel (University of Oslo, NO)

Thomas Plagemann (University of Oslo, NO)

17.00 – 17.30

CONCLUDING DISCUSSION

Event-based applications

Chairs

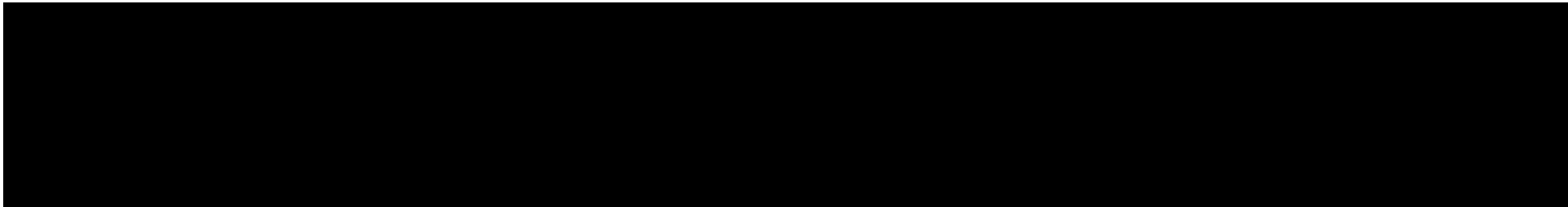
A. Scherp (University of Koblenz-Landau, Germany)

R. Jain (University of California at Irvine, CA, USA)

M. Kankanhalli, V. Mezaris (Centre for Research and Technology Hellas, Greece)

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WS07 – MiFor2010: Multimedia in Forensics, Security and Intelligence

9:15 – 9:20

OPENING SESSION

Chair

Sabu Emmanuel (Nanyang Technological University)

9:20 – 10:10

KEYNOTE TALK

Mobile Content Distribution

Chairs

Sebastiano Battiato (University of Catania)

Herwig Lejsek (Reykjavik University, Iceland)

Videntifier™ Forensic: Large-scale Video Identification in Practise

H. Lejsek (Reykjavik University, Iceland)

H. Pormoosdottir (Videntifier Technologies, Iceland)

F. H. Asmundsson (Eff2 Technologies, Iceland)

K. Daoason (Reykjavik University, Iceland)

A. P. Johannsson (Videntifier Technologies, Iceland)

B. Jonsson (Reykjavik University, Iceland)

L. Amsaleg (IRISA-CNRS, France)

10:10 – 10:30

ORAL SESSION 1

Near Copy Detection

Chair

Adrian Ulges (German Research Center for Artificial Intelligence)

Deluding Image Recognition in Sift-based CBIR Systems

T.-T. Do (INRIA Rennes, France)

E. Kijak (INRIA Rennes, France)

T. Furon (INRIA Rennes, France)

L. Amsaleg (INRIA-CNRS, France)

COFFEE BREAK

11:00 – 11:40

ORAL SESSION 2

Security of Multimedia Data

Chair

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An agency of the Province of British Columbia



Social



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Sabu Emmanuel (Nanyang Technological University)

Semantic Object Watermark Re-synchronization based on Skeleton Vertex Corresponds

P. Tzouveli (National Technical University of Athens, Greece)
K. Raftopoulos (National Technical University of Athens, Greece)
K. Ntalianis (National Technical University of Athens, Greece)
S. Kollias (National Technical University of Athens, Greece)

A Game-theoretic System Security Design for the Visible Watermarking

M.-J. Tsai (National Chiao-Tung University, Taiwan)

11:40 – 13:00

ORAL SESSION 3

Biometrics and Surveillance

Chair

Sebastiano Battiato (University of Catania)

Imputing Human Descriptions in Semantic Biometrics

D. Reid (University of Southampton, United Kingdom)
M. Nixon (University of Southampton, United Kingdom)

Privacy Preserving Video Surveillance using Pedestrian Tracking Mechanism

P. Zhang (Nanyang Technological University, Singapore)
T. Thomas (Nanyang Technological University, Singapore)
S. Emmanuel (Nanyang Technological University, Singapore)
M. Kankanhalli (Nanyang Technological University, Singapore)

A Video Surveillance Data Browsing Software Architecture for Forensics: from Trajectories Similarities to Video Fragments

M. Aravecchia (University of Modena and Reggio Emilia, Italy)
S. Calderara (University of Modena and Reggio Emilia, Italy)
S. Chiossi (University of Modena and Reggio Emilia, Italy)
R. Cucchiara (University of Modena and Reggio Emilia, Italy)

Semi-interactive Tracing of Persons in Real-life Surveillance Data

M. Metternich (University of Amsterdam, The Netherlands)
M. Worring (University of Amsterdam, The Netherlands)

LUNCH BREAK

14:30 – 15:20

KEYNOTE TALK

When Multimedia meets Surveillance and Forensics in People Security

Chairs

Marcel Worring, University of Amsterdam

Rita Cucchiara (University of Modena and Reggio Emilia, Italy)

15:20 – 16:30

POSTER SESSION

Further Improvements on Secret Image Sharing Scheme

S. Alharthi (University of Winnipeg, Canada)
P. K. Atrey (University of Winnipeg, Canada)

Copy-move Forgery Detection via Texture Description

E. Ardizzone (University of Palermo, Italy)
A. Bruno (University of Palermo, Italy)
G. Mazzola (University of Palermo, Italy)

Bags of Phrases with Codebooks Alignment for Near Duplicate Image Detection

S. Battiato (University of Catania, Italy)
G. M. Farinella (University of Catania, Italy)
G. C. Guarnera (University of Catania, Italy)
T. Meccio (University of Catania, Italy)
G. Puglisi (University of Catania, Italy)
D. Ravi (University of Catania, Italy)
R. Rizzo (University of Catania, Italy)

A Visual Tool for Forensic Analysis of Mobile Phone Traffic

S. Catanese (University of Messina, Italy)
G. Fiumara (University of Messina, Italy)

Copy Detection of Immersed Content in Video Databases

M. Corvaglia (University of Brescia, Italy)
F. Guerrini (University of Brescia, Italy)
R. Leonardi (University of Brescia, Italy)
P. Migliorati (University of Brescia, Italy)
E. Rossi (University of Brescia, Italy)

Measuring Sample Distortions in Face Recognition

D. M. Maria (Sapienza Università di Roma, Italy)
M. Nappi (University of Salerno, Italy)
D. Riccio (University of Salerno, Italy)

Estimating QP and Motion Vectors in H.264/AVC Video from Decoded Pixels

G. Valenzise (Politecnico di Milano, Italy)
M. Tagliasacchi (Politecnico di Milano, Italy)
S. Tubaro (Politecnico di Milano, Italy)

Combining Dynamic Texture and Structural Features for Speaker Identification

G. Zhao (University of Oulu, Finland)
X. Huang (University of Oulu, Finland)
Y. Gizatdinova (Tampere University, Finland)
M. Pietikainen (University of Oulu, Finland)

16:30 – 17:10

FORENSIC PROCESS SUPPORT

When Multimedia meets Surveillance and Forensics in People Security
Chair
Adrian Ulges (German Research Center for Artificial Intelligence)

An Automatic Transcription System of Hearings in Italian Courtrooms

G. Falavigna (Fondazione Bruno Kessler – irst, Italy)
M. Gerosa (Fondazione Bruno Kessler, Italy)
D. Giuliani (Fondazione Bruno Kessler, Italy)
R. Gretter (Fondazione Bruno Kessler – irst, Italy)

Augmented Crime Scenes: Virtual Annotation of Physical Environments for Forensic Investigation

A. Gee (University of Bristol, United Kingdom)
W. W. Mayol-Cuevas (University of Bristol, United Kingdom)
A. Calway (University of Bristol, United Kingdom)

17:10 – 17:50

IMAGE FORGERY DETECTION

Chair
Sebastiano Battiato (University of Catania)

Building Fingerprints with Information from three Color Bands for Source Camera Identification

Y. Hu (South China University of Technology, P.R. China)
C.-T. Li (University of Warwick, United Kingdom)
C. Jian (South China University of Technology, P.R. China)

On the influence of Denoising in PRNU based Forgery Detection

G. Chierchia (University of Napoli, Italy)
S. Parrilli (University of Napoli, Italy)
G. Poggi (University of Napoli, Italy)
C. Sansone (University of Napoli, Italy)
L. Verdoliva (University of Napoli, Italy)

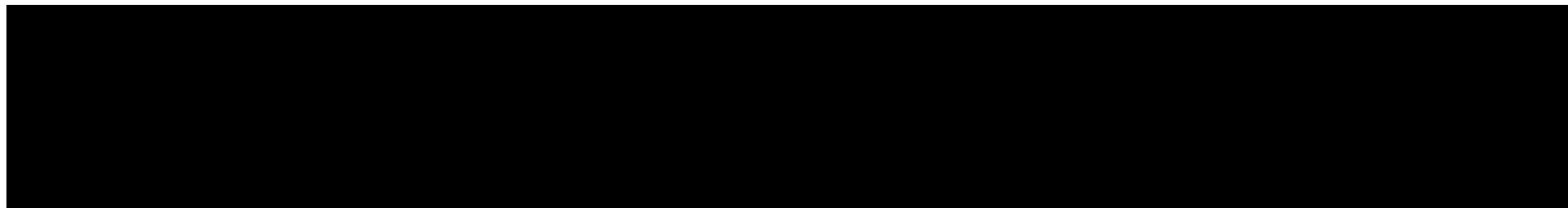
17:50 – 18:00

CLOSING

Marcel Worring (University of Amsterdam)

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Distance Learning

WS08 – MTDL 2010: 2nd ACM Workshop on Multimedia Technologies for Distance Learning

Sponsors



Social



9:15 – 10:30

ORAL SESSION 1

Learning Object Repository and Authoring

Chair

Rynson W.H. Lau (City University of Hong Kong, Hong Kong)

A New Paradigm of Ranking & Searching in Learning Object Repository

Neil Yen (Waseda University, Japan)

Timothy Shih (National Central University, Taiwan)

Qun Jinm (Waseda University, Japan)

Adaptive Learning Resources Search Mechanism

Neil Yen (Waseda University, Japan)

Timothy Shih (National Central University, Taiwan)

Louis Chao (Tamkang University, Taiwan)

Integrating Multidimensional Means in E-learning

Neil Yen (Waseda University, Japa)

Timothy Shih (National Central University, Taiwan)

Louis Chao (Tamkang University, Taiwan)

COFFEE BREAK

10:45 – 12:00

ORAL SESSION 2

Remote Accessing and Game-based Learning

Chair

Timothy Shih (National Central University, Taiwan)

Multiple Angle Viewer for Remote Medical Training

Adriana Olmos (McGill University, Canada)

Kevin Lachapelle (McGill University, Canada)

Jeremy R Cooperstock (McGill University, Canada)

A Pedagogical Interface for Adaptive e-Learning Course Authoring

Christopher Watson (University of Durham, United Kingdom)

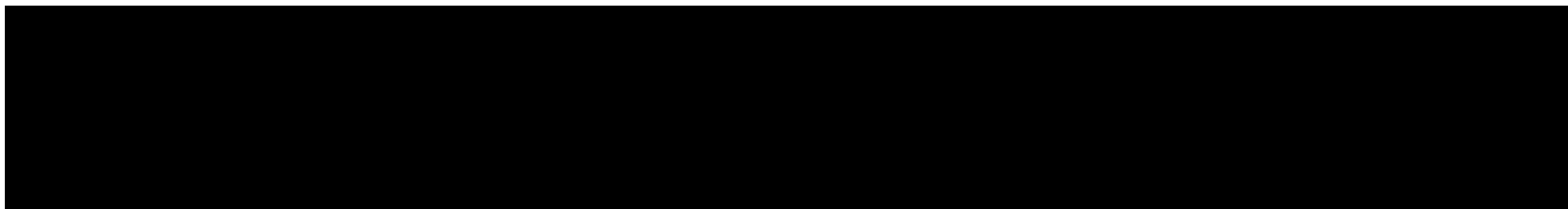
Frederick W. B. Li (University of Durham, United Kingdom)
Rynson Lau (City University of Hong Kong, Hong Kong)

Easing Assessment of Game-based Learning with <e-Adventure> and LAMS
Angel del Blanco (Universidad Complutense de Madrid, Spain)
Javier Torrente (Universidad Complutense de Madrid, Spain)
Eugenio Marchiori (Universidad Complutense de Madrid, Spain)
Ivan Martinez-Ortiz (Universidad Complutense de Madrid, Spain)
Pablo Moreno Ger (Universidad Complutense de Madrid, Spain)
Baltasar Fernandez-Manjon (Universidad Complutense de Madrid, Spain)

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WS09 – 3DVP 2010: ACM Workshop on 3D Video Processing

8:30 – 8:40

OPENING SESSION

Chair

O. Schreer (Fraunhofer HHI, Germany)

8:40 – 10:00

ORAL SESSION 1

Video-based rendering

Chair

A. Hilton (University of Surrey, UK)

Space-Time Visual Effects as a Post-Production Process

Ch. Linz (TU Braunschweig, Germany)

Ch. Lipski (TU Braunschweig, Germany)

L. Rogge (TU Braunschweig, Germany)

Ch. Theobalt (Max-Planck Institut Informatik, Germany)

M. Magnor (University of Braunschweig, Germany)

A Joint Multi-View Plus Depth Image Coding Scheme Based on 3D-Warping

M. Zamarin (Technical University of Denmark, Denmark)

P. Zanuttigh (University of Padua, Italy)

S. Milani (University of Padova, Italy)

G. Cortelazzo (University of Padova, Italy)

S. Forchhammer (Technical University of Denmark, Denmark)

Wide-Baseline Multi-View Video Segmentation For 3D Reconstruction

M. Sarim (University of Surrey, UK)

A. Hilton (University of Surrey, UK)

J.-Y. Guillemaut (University of Surrey, UK)

H. Kim (University of Surrey, UK)

T. Takai (University of Surrey, UK)

COFFEE BREAK

10:45 -12:00

ORAL SESSION 2

3D Reconstruction

Chair

Sponsors



Social



ACM Multimedia 2010 Twitter

E. Trucco (University of Dundee, UK)

From Silhouettes to 3D Points to Mesh Towards Free Viewpoint Video

J. Salvador (Technical University of Catalonia (UPC), Spain)

X. Suau (Technical University of Catalonia (UPC), Spain)

J.R. Casas (Technical University of Catalonia (UPC), Spain)

Novel View Synthesis for Stereoscopic Cinema: Detecting and Removing Artifacts

F. Devernay (INRIA Rhône-Alpes, France)

A.Ramos-Peon (INRIA Rhône-Alpes, France)

3D Feature Extraction from Uncalibrated Video Clips

A. Donate (Florida State University, USA)

X. Liu (Florida State University, USA)

12:00 -12:50

ORAL SESSION 3

Multi-view analysis

Chair

A. Hilton (University of Surrey, UK)

A Novel Blind Watermarking Scheme for Depth-Image-Based Rendering 3D Images

Y.-H. Lin (National Taiwan University, Taiwan)

J.-L. Wu (National Taiwan University, Taiwan)

OTESC: Online Transformation Estimation between Stereo Cameras

T. Schreuder (Delft University of Technology, The Netherlands)

E. A. Hendriks (Delft University of Technology, The Netherlands)

A. Redert (Philips Electronics, TheNetherlands)

LUNCH BREAK

14:30 – 15:30

KEYNOTE TALK

Video-based rendering

Chair

O. Schreer (Fraunhofer HHI, Germany)

Stereo in Post-Production

Dr. Jonathan Starck, The Foundry, UK

COFFEE BREAK

15:50 – 17:10

ORAL SESSION 4

Multi-view analysis (continued)

Chair

O. Schreer (Fraunhofer HHI, Germany)

Multiple View Human Articulated Tracking using Charting and Particle Swarm Optimisation

V. John (University of Dundee, UK)

E.Trucco (University of Dundee, UK)

Self-occlusion handling for human body motion tracking from 3D ToF image sequence

D. Kim (POSTECH, Korea)

Nonrigid Stereo Reconstruction Using Linear Programming

S. Shen (Institute of Automation,Chinese Academy of Sciences, P.R. China)

Y. Liu (Institute of Automation,Chinese Academy of Sciences, P.R. China)

17:10

CLOSURE OF THE WORKSHOP

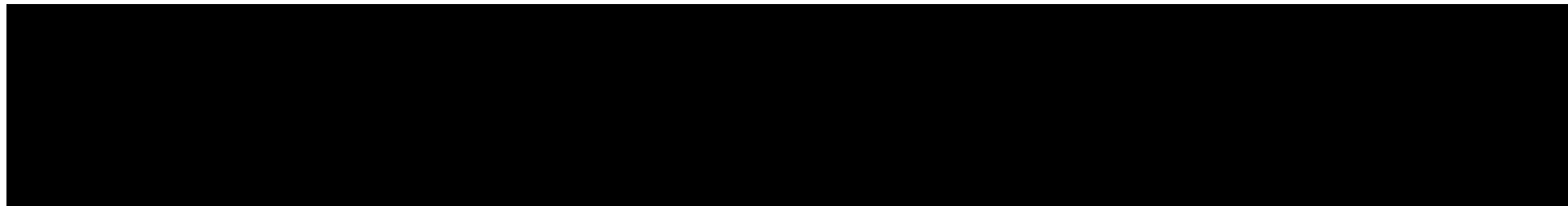
Chair

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Conversational Speech

WS10 – SSCS 2010: ACM Workshop on Searching Spontaneous Conversational Speech

Sponsors



Social



8:30 – 8:45

OPENING SESSION

Franciska de Jong (University of Twente, Netherlands)

8:45 – 9:30

ORAL SESSION

First invited talk on real-world user needs for searching speech

Chair

Franciska de Jong (University of Twente, Netherlands)

Speech Retrieval for Interview Data: Technology Push versus Academic Demand

Stef Scagliola (Netherlands Veterans Institute, Netherlands)

9:30 – 10:00

ORAL SESSION

Boasters for Demonstration presentations

Chair

Florian Metzger (Carnegie Mellon University, USA)

The ACLD: Speech-based Just-in-Time Retrieval of Meeting Transcripts, Documents and Websites

Andrei Popescu-Belis (Idiap Research Institute, Switzerland)

Jonathan Kilgour (University of Edinburgh, UK)

Alexandre Nanchen (Idiap)

Peter Poller (DFKI, Germany)

The Ambient Spotlight: Queryless Desktop Search From Meeting Speech

Jonathan Kilgour (University of Edinburgh, UK)

Jean Carletta (University of Edinburgh, UK)

Steve Renals (University of Edinburgh, UK)

Large Multimedia Archive for World Languages

Peter Wittenburg (MPI for Psycholinguistics, Netherlands)

Spoken News Queries over the World Wide Web

Sebastian Stüker (Karlsruhe Institute of Technology, Germany)

Michael Heck (Karlsruhe Institute of Technology, Germany)

Katja Renner (Karlsruhe Institute of Technology, Germany)
Alex Waibel (Karlsruhe Institute of Technology, Germany)

A Parallel Meeting Diarist

Gerald Friedland (International Computer Science Institute, USA)
Mike Chong (University of California, Berkeley, USA)
Adam Janin (International Computer Science Institute, USA)

10:00 – 10:30

ORAL SESSION

Challenges of Segmentation

Chair

Florian Metzger (Carnegie Mellon University, USA)

Story Segmentation for Speech Transcripts in Sparse Data Conditions

Laurens van der Werff (University of Twente, Netherlands)

COFFEE BREAK

11:00 – 12:30

ORAL SESSION

Challenges of Spontaneous Content

Chairs

Wessel Kraaij (Radboud University Nijmegen and TNO, Netherlands)

Impact of Spontaneous Speech Features on Business Concept Detection: a Study of Call-Centre Data

Charlotte Danesi (EDF R&D, France)

Chloé Clavel (EDF R&D, France)

Automatic Indexing of Speech Segments with Spontaneity Levels on Large Audio Database

Richard Dufour (Université du Maine Le Mans, France)

Yannick Esteve (Université du Maine Le Mans, France)

Paul Deleglise (Université du Maine Le Mans, France)

Speaker Role Recognition to help Spontaneous Conversational Speech Detection

Benjamin Bigot (Paul Sabatier University, France)

Julien Pinquier (Paul Sabatier University, France)

Régine Andre-Obrecht (Paul Sabatier University, France)

Isabelle Ferrané (Paul Sabatier University, France)

12:30 – 13:00

ORAL SESSION

Second invited talk on real-world user needs for searching speech

Chair

Martha Larson (Delft University of Technology, Netherlands)

Searching Large Archives

Roeland Ordelman (Netherlands Institute for Sound and Vision)

LUNCH BREAK

14:30 – 15:15

ORAL SESSION

Third invited talk on real-world user needs for searching speech

Chair

Martha Larson (Delft University of Technology, Netherlands)

World Wide Telecom Web Search

Nitendra Rajput, IBM Research, India

15:15 – 16:15

POSTER / DEMO SESSION

Hands-on demonstration session

Chair

Franciska de Jong (University of Twente, Netherlands)

16:15 – 17:45

ORAL SESSION

Challenges of Search

Chair

Roeland Ordelman (Netherlands Institute for Sound and Vision)

Novel Methods for Query Selection and Query Combination in Query-By-Example Spoken Term Detection,

Javier Tejedor (HCTLab – Universidad Autonoma de Madrid, Spain)

Igor Szoke and Michal Fapso (Speech@FIT, Czech Republic)

Direct Posterior Confidence for Out-of-Vocabulary Spoken Term Detection

Dong Wang (EURECOM, France)

Simon King (University of Edinburgh, UK)

Nicholas W. D. Evans (EURECOM, France)

Joe Frankel (University of Edinburgh, UK)

Raphael Troncy (EURECOM, France)

Towards Methods for Efficient Access to Spoken Content in the AMI Corpus

Gareth J.F. Jones (Dublin City University, Ireland)

Maria Eskevich (Dublin City University, Ireland)

Agnes Gyarmati (Dublin City University, Ireland)

17:45 – 18:00

CLOSING WORDS

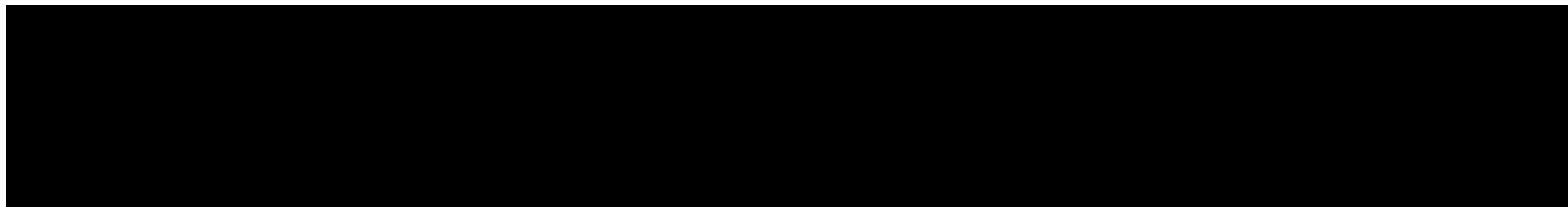
Chair

Martha Larson (Delft University of Technology, Netherlands)

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WS11 – ARTEMIS2010: ACM Workshop on Analysis and Retrieval of Tracked Events and Motion in Imagery Streams

Sponsors



Social



09.25 - 9.30

OPENING SESSION

Chair

Jordi González (Universitat Autònoma de Barcelona and Computer Vision Center, Spain)

09.30 - 10.30

KEYNOTE TALK

Chairs

Anastasios Doulamis (Technical University of Greece, Greece)

Jordi González (Universitat Autònoma de Barcelona and Computer Vision Center, Spain)

Emphatic Human Interaction Analysis for Cognitive Environments

Carlo S. Regazzoni (University of Genova, Italy)

10.30 – 11.00

POSTER / DEMO SESSION

Chair

Anastasios Doulamis (Technical University of Greece, Greece)

Jordi González (Universitat Autònoma de Barcelona and Computer Vision Center, Spain)

Event detection in video using motion analysis

Hari Kalva (Florida Atlantic University, USA)

Oge Marques (Florida Atlantic University, USA)

Borko Furht (Florida Atlantic University, USA)

Human Action Recognition With MPEG-7 Descriptors And Architectures

Zia Moghaddam (University of Technology, Sydney, Australia)

Massimo Piccardi (University of Technology, Sydney, Australia)

Event-based unobtrusive authentication using multi-view image sequences

Anastasios Drosou (Imperial College London, UK)

Real Time Illumination Invariant Motion Change Detection

Konstantinos Avgerinakis (Informatics and Telematics Institute, Greece)

Alexia Briassouli (Informatics and Telematics Institute, Greece)

Yiannis Kompatsiaris (Informatics and Telematics Institute, Greece)

Tools for semi-automatic monitoring of industrial workflows

Roland Mörzinger (Joanneum Research mbH, Austria)
 Emmanuel S. Sardis (National Tech. Univ. of Athens, Greece)
 Helmut Grabner (ETH Zurich, Switzerland)
 Rene Schuster (Joanneum Research mbH, Austria)
 Luc Van Gool (ETH Zurich, Switzerland)
 Georg Thallinger (Joanneum Research mbH, Austria)
 Marcus Thaler (Joanneum Research mbH, Austria)
 Albert Hofmann (Joanneum Research mbH, Austria)
 Severin Stalder (ETH Zurich, Switzerland)
 Vassilios Anagnostopoulos (National Tech. Univ. of Athens, Greece)
 Theodora A. Varvarigou (National Tech. Univ. of Athens, Greece)
 Igor Rosenberg (ATOS Origin, Spain)
 Imed Bouchrika (University of Southampton, UK)
 Banafshe Arbab-Zavar (University of Southampton, UK)

Multi-sensor Registration for Objects Motion Detection

Luigi Cinque (University of Rome la Sapienza, Italy)
 Francesco Di Renzo (University of Parma, Italy)
 Gian Luca Foresti (University of Udine, Italy)
 Christian Micheloni (University of Udine, Italy)
 Gabriele Morrone (University of Rome la Sapienza, Italy)

COFFEE BREAK**11.30 – 13.00****ORAL SESSION 1**

Human Motion Analysis

Chairs

Borko Fuhrt (Florida Atlantic University, USA)

Marco Bertini (Università di Firenze, Italy)

Human gesture recognition using 3.5-dimensional trajectory features for hands-free user interface

Masaki Takahashi (NHK Japan Broadcasting Corporation, Japan)

Mahito Fujii (NHK Japan Broadcasting Corporation, Japan)

Masahide Naemura (NHK Japan Broadcasting Corporation, Japan)

Shin'ichi Satoh (National Institute of Informatics, Japan)

Joint multitarget object tracking and interaction analysis by a probabilistic bio-inspired model

Francesco Monti (University of Genoa, Italy)

Stefano Maludrottu (University of Genova, Italy)

Carlo S. Regazzoni (University of Genova, Italy)

LUNCH BREAK**14.00 – 15.30****ORAL SESSION 2**

Event Analysis and Annotation

Chairs

Prof. Benois-Pineau (University Bordeaux 1, France)

Roberto Vezzani (Università degli Studi di Modena, Italy)

Multi-object Particle Filter Tracking with Automatic Event Analysis

Yifan Zhou (University Bordeaux 1, France)

Jenny Benois-Pineau (University of Bordeaux, France)

Henri Nicolas (LaBRI, France)

Dense spatio-temporal features for non-parametric anomaly detection and localization

Lorenzo Seidenari (University of Florence, Italy)

Marco Bertini (Università di Firenze, Italy)

Alberto Del Bimbo (Università di Firenze, Italy)

Automatic Annotation of Image Databases Based on Implicit Interaction and Visual Concept Modeling

Klimis Ntalianis (National Technical University of Athens, Greece)

Nikolaos D. Doulamis (National Technical University of Athens, Greece)

Nicolas Tsapatsoulis (Cyprus University of Technology, Cyprus)

COFFEE BREAK**16.00 – 17.30****ORAL SESSION 3**

Behaviour Understanding

Chairs

Prof. Cucchiara (Università degli Studi di Modena, Italy)

Jordi González (Universitat Autònoma de Barcelona and Computer Vision Center, Spain)

Enhanced Human Behavior Recognition using HMM and Evaluative Rectification

Nikolaos D. Doulamis (National Technical University of Athens, Greece)

Athanasios Voulodimos (National Technical University of Athens, Greece)

Dimitris Kosmopoulos (NCSR Demokritos, Greece)

Theodora Varvarigou (National Technical University of Athens, Greece)

Automatic Fish Classification for Underwater Species Behavior Understanding

Concetto Spampinato (University of Catania, Italy)

Daniela Giordano (University of Catania, Italy)

Roberto Di Salvo (University of Catania, Italy)

Yun-Heh Chen-Burger (University of Edinburgh, UK)

Robert Fisher (University of Edinburgh, UK)

Gayathri Nadarajan (University of Edinburgh, UK)

Combining Inertial and Visual Sensing for Human Action Recognition in Tennis

Ciarán O'Conaire (Centre for Digital Video Processing, Ireland)

Damien Connaghan (Centre for Sensor Web Technologies, Ireland)

Philip T Kelly (Dublin City University, Ireland)

Noel O'Connor (Dublin City University, Ireland)

17.30 – 17.45

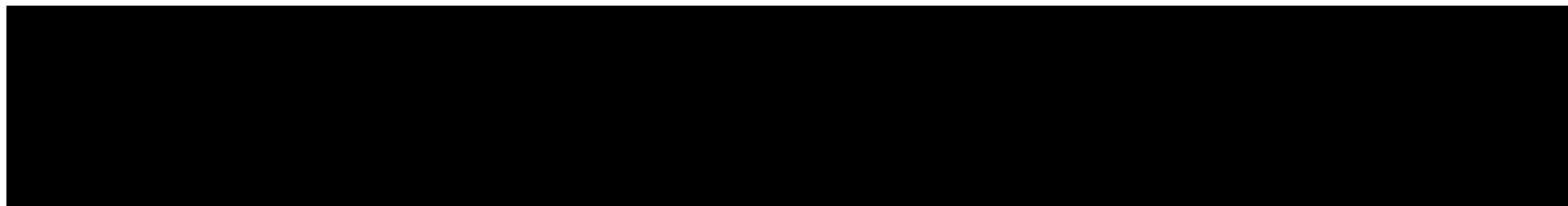
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Anastasios Doulamis (Technical University of Greece, Greece)

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Extraction in Media Production

WS12 – AIEMPro10: 3d ACM Workshop on Automated Information Extraction in Media Production

Sponsors



Social



8.30 – 9.00

OPENING SESSION

Chair

Alberto Messina (RAI R&D, Italy)

9.00 – 10.00

KEYNOTE TALK

Chair

Alberto Messina (RAI R&D, Italy)

Technologies for Next-Generation Multi-Media Libraries – The CONTENTUS project

AndreasHess (Deutsche National Bibliothek, Germany)

COFFEE BREAK

10.30 – 11.45

ORAL SESSION 1

Content Abstraction and Representation

Chair

Jean-Pierre Evain (EBU, Switzerland)

Narrative-theme navigation for sitcoms supported by fan-generated scripts

Gerald Friedland (ICSI, USA)

Luke Gottlieb (ICSI, USA)

Adam Janin (ICSI, USA)

A Novel Video Thumbnail Extraction Method Using Spatiotemporal Vector Quantization

Junfeng Jiang (Ryerson Univ., Canada)

Xiao-Ping Zhang (Ryerson Univ., Canada)

11.45 – 13.00

ORAL SESSION 2

Archive Indexing and Retrieval

Chair

Robbie De Sutter (VRT-medialab, Belgium)

Towards Automatic Speaker Retrieval for Large Multimedia Archives

Marijn Huijbregts (Radboud University Nijmegen, The Netherlands)
David A Van Leeuwen (TNO Human Factors, The Netherlands)

Content-based Video Genre Classification Using Multiple Cues
Hazim Kemal Ekenel (Karlsruhe Inst. Of Technology, Germany)
Rainer Stiefelhagen (Karlsruhe Inst. Of Technology, Germany)
Tomas Semela (Univ. of Karlsruhe, Germany)

Role-based Identity Recognition for Telecasts
Tobias Schwarze (Siemens, Germany)
Thomas Riegel (Siemens, Germany)
Seunghan Han (Siemens, Germany)
Andreas Sutter (Siemens, Germany)
Stephan Wirthm (Siemens, Germany)
Christian Petersohn and Patrick Ndjiki-Nya (Fraunhofer-Gesellschaft, Germany)

LUNCH BREAK

14.15 – 15.30

ORAL SESSION 3

News Production Automation
Chair
Masanori Sano (NHK R&D, Japan)

Implicit News Recommendation Based on User Interest Models and Multimodal Content Analysis
Riccardo Di Massa (Politecnico di Torino, Italy)
Maurizio Montagnuolo (RAI R&D, Italy)
Alberto Messina (RAI R&D, Italy)

Unsupervised Event Segmentation of News Content with Multimodal Cues
Mattia Broilo (Univ. Of Trento, Italy)
Francesco G.B. De Natale (Univ. Of Trento, Italy)
Eric Zavesky and Andrea Basso (AT&T Labs, USA)

Automatic News Recommendations via Profiling
Erik Mannens (Univ. of Ghent, Belgium)
Toon De Pessemier (Univ. of Ghent, Belgium)
Sam Coppens (Univ. of Ghent, Belgium)
Davy Van Deursen (Univ. of Ghent, Belgium)
Rik Van de Walle (Univ. of Ghent, Belgium)
Hendrik Dacquin (VRT medialab, Belgium)

COFFEE BREAK

16.00 – 17.15

ORAL SESSION 4

Audiovisual Content Analysis
Chair
Gerald Friedland (ICSI, USA)

Generic Architecture for Event Detection in Broadcast Sports Video
Chris Poppe (Ghent University, Belgium)
Sarah De Bruyne (Ghent University, Belgium)
Rik Van de Walle (Ghent University, Belgium)

SHIATSU: Semantic-Based Hierarchical Automatic Tagging of Videos by Segmentation using Cuts
Ilaria Bartolini (Univ. of Bologna, Italy)
Marco Patella (Univ. of Bologna, Italy)
Corrado Romani (Univ. of Bologna, Italy)

Efficient Video Breakup Detection and Verification
Martin Winter (JOANNEUM Research, Austria)
Peter Schallauer (JOANNEUM Research, Austria)
Albert Hofmann (JOANNEUM Research, Austria)
Hannes Fassold (JOANNEUM Research, Austria)

17.15– 17.45

WRAP UP SESSION AND CLOSING REMARKS

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WS13 – VLS-MCMR'10: ACM Workshop on Very-Large-Scale Multimedia Corpus, Mining and Retrieval

9:00 – 9:05
OPENING SESSION

9:05 – 10:00
KEYNOTE TALK
Chair
Benoit Huet (EURECOM, France)

COFFEE BREAK

10:30 – 11:45
ORAL SESSION 2
Chair
Alexander Hauptmann (CMU, USA)

Commercial Film Detection and Identification Based on a Dual-Stage Temporal Recurrence Hashing Algorithm
Xiaomeng Wu (National Institute of Informatics, Japan)
Narongsak Putpuek (Chulalongkorn University, Thailand)
Shin'ichi Satoh (National Institute of Informatics, Japan)

A Large-Scale Performance Study of Cluster-Based High-Dimensional Indexing
Gylfi Gudmundsson (INRIA, France)
Björn Jónsson (Reykjavík University, Iceland)
Laurent Amsaleg (IRISA-CNRS, France)

Optimizing Similarity-based Image Joins in a Multimedia Database
Harald Kosch (University of Passau, Germany)

11:45 – 12:45
ORAL SESSION 3
Chair
Ed Chang (Google Inc., P.R. China)

Towards Extensible Automatic Image Annotation with the Bag-of-Words Approach
Robert Nagy (University of Erlangen-Nürnberg, Germany)
Klaus Meyer-Wegener (University of Erlangen-Nürnberg, Germany)

Sponsors



Social



An analysis of user behavior in online video streaming

Fan Qiu (Vanderbilt University, USA)

Yi Cui (Vanderbilt University, USA)

Weighting Bag-of-Visual-Words by SVM Kernel Optimization for Video Concept Detection

Feng Wang (East China Normal University, P.R. China)

Bernard Merialdo(EURECOM, France)

LUNCH BREAK

14:15 – 15:35

ORAL SESSION 4

Chair

Tat-Seng Chua (NUS, Singapore)

Incremental Multi-Classifer Learning Algorithm on Grid'5000 for Large Scale Image Annotation

Yubing Tong (University Joseph Fourier, France)

Automatic Image Annotation by Using Relevant Keywords Extracted from Auxiliary Text Documents

Ning Zhou (University of North Carolina at Charlotte, USA)

Yi Shen (University of North Carolina at Charlotte, USA)

Jianping Fan (University of North Carolina at Charlotte, USA)

A Deep Model-based and Data-driven Hybrid Architecture for Image Annotation

Zhiyu Wang (Tsinghua University, P.R. China)

Dingyin Xia (College of Computer Science, Zhejiang University, P.R. China)

Ed Chang (Google Inc., P.R. China)

Concept Detector Refinement Using Social Videos

Xueliang Liu (EURECOM, France)

Benoit Huet (EURECOM, France)

COFFEE BREAK

16:00 – 17:30

PANEL SESSION

Very Large Scale Multimedia Corpus, Mining and Retrieval

Chair

Benoit Huet (EURECOM, France)

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Analysis

WS14 – MPVA 2010: ACM Workshop on Multimodal Pervasive Video Analysis

Sponsors



Social



9:00 – 10:00

KEYNOTE TALK

Chair

Vittorio Murino, University of Verona, Italy

Efficient Detection of Abnormal Events in Large-Scale Networks

Prof. Svetha Venkatesh, Curtin University of Technology, Australia

COFFEE BREAK

10:25 – 11:40

ORAL SESSION 1

Pervasive Surveillance

Chair

Caifeng Shan, Philips Research, The Netherlands

Learning Human Pose in Crowd

Shaogang Gong

Tao Xiang, Queen Mary University of London, UK

Space Speaks – Towards Socially and Personality Aware Visual Surveillance

Gloria Zen, FBK-irst, Italy

Bruno Lepri, FBK-irst, Italy

Elisa Ricci, FBK-irst, Italy

Oswald Lanz, FBK-irst, Italy

Real Time Multiple People Tracking and Pose Estimation

Feifei Huo

Emile A. Hendriks, TU Delft, The Netherlands

11:45 – 13:00

ORAL SESSION 2

Multi-Camera Systems

Chair

Shaogang Gong, Queen Mary University of London, UK

Spatial-Temporal Understanding of Urban Scenes through Large Camera Network

Jiejun Xu, University of California, Santa Barbara, USA

Zefeng Ni, University of California, Santa Barbara, USA
 Carter De Leo, University of California, Santa Barbara, USA
 Thomas Kuo, University of California, Santa Barbara, USA
 Bangalore Manjunath, University of California, Santa Barbara, USA

Efficient Person Identification Using Active Cameras in a Smartroom

Florian van de Camp

Michael Voit, Fraunhofer IOSB, Germany

Rainer Stiefelhagen, Karlsruhe Institute of Technology, Germany

Video Topic Modelling with Behavioural Segmentation

Tom Haines, Queen Mary University of London, UK

Tao Xiang, Queen Mary University of London, UK

LUNCH BREAK

14:30 – 15:30

KEYNOTE TALK

Chair

Marco Cristani, University of Verona, Italy

What to Look For: Making Sense of Distributed Cameras in Public Spaces

Prof. Shaogang Gong, Queen Mary University of London, UK

COFFEE BREAK

15:55 – 18:00

ORAL SESSION 3

Applications

Chair

Vittorio Murino, University of Verona, Italy

Modeling and Recognition of Multi-Person Complex Interactions in Video

Ricky Sethi, University of California, Riverside, USA

Amit Roy-Chowdhury, University of California, Riverside, USA

Image-based Indoor Positioning System: Fast Image Matching using Omnidirectional Panoramic Images

Hisato Kawaji, University of Tokyo, Japan

Koki Hatada, University of Tokyo, Japan

Toshihiko Yamasaki, University of Tokyo, Japan

Kiyoharu Aizawa, University of Tokyo, Japan

Automated 3D Gesture Recognition Applying Long Short-Term Memory and Contextual Knowledge in a CAVE

Dejan Arsic, Technical University of Munich, Germany

Luis Roalter, Technical University of Munich, Germany

Martin Wöllmer, Technical University of Munich, Germany

Florian Eyben, Technical University of Munich, Germany

Moritz Kaiser, Technical University of Munich, Germany

Björn Schuller, Technical University of Munich, Germany

Gerhard Rigoll, Technical University of Munich, Germany

Matthias Kranz, Technical University of Munich, Germany

Learning Local Features for Age Estimation on Real-life Faces

Caifeng Shan, Philips Research, The Netherlands

Video Narrative Authoring with Motion Inpainting

Timothy Shih, Asia University, Taiwan

Joseph Tsai, Tamkang University, Taiwan

Kuan-Ching Li, Providence University, Taiwan

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Attendees

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WS15 – ACM Workshop on Mobile Cloud Media Computing

8:50 – 9:00
OPENING SESSION

9:00 – 10:00
KEYNOTE TALK
 Chair
 Chang Wen Chen, University at Buffalo, USA

Crawling Is Difficult in Clouds
 Ramesh Jain, University of California, Irvine, USA

10:00 – 11:15
ORAL SESSION 1
 Media Networking and Content Delivery
 Chair
 Xian-Sheng Hua, Microsoft Research Asia, China

Multimedia Distribution using Network Coding on the iPhone Platform
 Péter Vingelmann, Budapest University of Technology and Economics, Hungary
 Morten Videbæk Pedersen, Aalborg University, Denmark
 Frank H.P. Fitzek, Aalborg University, Denmark
 Janus Heide, Aalborg University, Denmark

Optimal Resource Management in OFDMA Wireless Networks to Support Multimedia Traffic
 Dhananjay Kumar, Anna University, India

A study of transcoding on cloud environments for video content delivery
 Adriana Garcia, Florida Atlantic University, USA
 Hari Kalvaa, Florida Atlantic University, USA
 Borko Furht, Florida Atlantic University, USA

COFFEE BREAK

11:45 – 13:00
ORAL SESSION 2
 Mobile Media Experience Computing
 Chair
 Gang Hua, IBM Research, USA

Melog – Mobile Experience Sharing Through Automatic Multimedia Blogging

Sponsors



Social



ACM Multimedia 2010 Twitter

Hongzhi Li, Zhejiang University, P.R. China
Xian-Sheng Hua, Microsoft Research Asia, P.R. China

Video Based Mobile Location Search with Large Set of SIFT Points in Cloud

Zhu Li, Hong Kong Polytechnic University, Hong Kong
Zhi Ye, Hong Kong Polytechnic University, Hong Kong
Xin Chen, Hong Kong Polytechnic University, Hong Kong

The E-Recall Environment for Cloud based Mobile Rich Media Management

Jialie Shen, Singapore Management University, Singapore

LUNCH BREAK

14:30 – 15:45

ORAL SESSION 3

Media Computing and Transmission

Chair

Zhu Li, Hong Kong Polytechnic University, Hong Kong

A New Perceptual Quality Metric for Video Transrating for Mobile Devices

Jingteng Xue

Chang Wen Chen, State University of New York at Buffalo, USA

Low Latency Image Retrieval with Progressive Transmission of CHOg Descriptors

Vijay R Chandrasekhar, Stanford University, USA

Sam Tsai, Stanford University, USA

Gabriel Takacs, Stanford University, USA

David M Chen, Stanford University, USA

Ngai-Man Cheung, Stanford University, USA

Yuriy A. Reznik, QUALCOMM Incorporated, USA

Ramakrishna Vedantham, Nokia, USA

Radek Grzeszczuk, Nokia Research Center, USA

Bernd Girod, Stanford University, USA

Fast Interactive Image Segmentation by Discriminative Clustering

Dingding Liu, University of Washington, USA

Yingen Xiong, Nokia Research Center, USA

Linda Shapiro, University of Washington, USA

Kari Pulli, Nokia Research Center, USA

COFFEE BREAK

16:00 – 17:15

ORAL SESSION 4

Mobile Cloud Media Applications

Chair

Jialie Shen, Singapore Management University, Singapore

Browsing Online Music Catalogues in a Vehicle

Stéphane Turlier, EURECOM, France

Clemens Hahn, Ulm University, Germany

Sascha Gebhardt, Ludwig Maximilian Universität, Germany

Efficient Non-Linear Editing for Non-Volatile Mobile Storage

Seung-Ho Lim, Hankuk University of Foreign Studies, Korea

Cloud-Computing-Based Framework for Multi-Camera Topology Inference in Smart City Sensing System

Ye Wen, University, P.R. China

Xiaokang Yang, University, P.R. China

Yi Xu, Shanghai Jiao Tong University, P.R. China

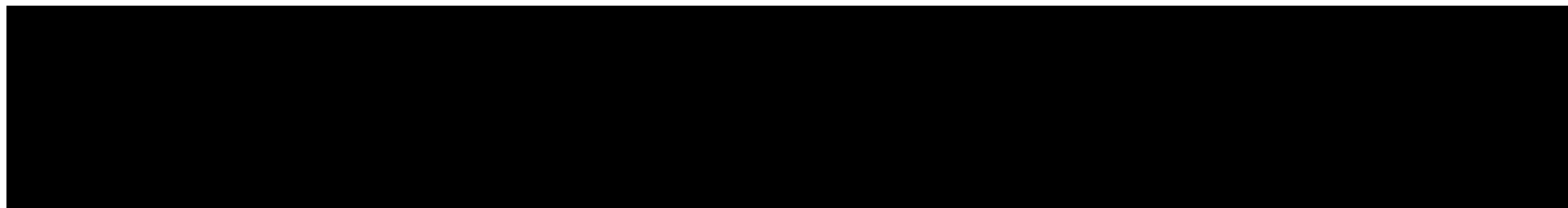
17:15 – 17:30

CLOSING REMARK

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to-peer networks and social networking

WS16 – ACM Workshop on Advanced video streaming techniques for peer-to-peer networks and social networking

Sponsors



Social



9:00 – 9:15
 OPENING SESSION

9:15 – 10:00
 KEYNOTE TALK
 Chair
 Christian Timmerer, Klagenfurt University, Austria

Audio/visual content and metadata delivered over the open Internet using P2P-Next: some experiences from a broadcaster's perspective
 George Wright, Head of Prototyping, BBC Research and Development

10:00 – 10:30
 POSTER / DEMO SESSION

COFFEE BREAK

11:00 – 12:00
 ORAL SESSION 1
 Networking and Streaming
 Chair
 Christian Timmerer, Klagenfurt University, Austria

P2P Group Communication with Layer-Aware FEC
 Yago Sánchez, Fraunhofer Institute for Telecommunications – Heinrich-Hertz-Institute, Germany
 Cornelius Hellge, Fraunhofer Institute for Telecommunications – Heinrich-Hertz-Institute, Germany
 Thomas Schier, Fraunhofer Institute for Telecommunications – Heinrich-Hertz-Institute, Germany
 Thomas Wiegand, Fraunhofer Institute for Telecommunications – Heinrich-Hertz-Institute, Germany

P2P streaming with LT codes: a prototype experimentation
 Andrea Magnetto, Università di Torino, Italy
 Rossano Gaeta, Università di Torino, Italy
 Marco Grangetto, Università di Torino, Italy
 Matteo Sereno, Università di Torino, Italy

Peer-to-Peer streaming based on network coding improves packet jitter
 Riccardo Bernardini, University of Udine, Italy

Roberto Cesco Fabbro, University of Udine, Italy
Roberto Rinaldo, University of Udine, Italy

12:00 – 13:00

ORAL SESSION 2

Application

Chair

Pascal Frossard, EPFL, Switzerland

A Novel Cache Optimization Algorithm and Protocol for Video Streaming in Pure Peer-to-Peer Networks

Carlo Giulietti

Dan Schonfeld

Rashid Ansari, University of Illinois at Chicago, USA

Access Control to BitTorrent swarms using Closed Swarms

Keith Mitchell, Lancaster University, United Kingdom

Njaal Borch, Norut IT, Norway

Ingar Arntzen, Norut IT, Norway

Dusan Gabrijelcic, Jozef Stefan Institute, Slovenia

Advanced Prefetching and Upload Strategies for P2P Video-on-Demand

Osama Abboud, Technische Universitaet Darmstadt, Germany

Konstantin Pussep, Technische Universitaet Darmstadt, Germany

Markus Müller, Technische Universitaet Darmstadt, Germany

Aleksandra Kovacevic, Technische Universitaet Darmstadt, Germany

Ralf Steinmetz, Technische Universitaet Darmstadt, Germany

LUNCH BREAK

14:30 – 15:30

ORAL SESSION 3

Design

Chair

Keith Mitchell, University of Lancaster, UK

A Hybrid Approach to Modeling End-to-End Delay in P2P Networks

Philipp Berndt

Dominic Battré

Odej Kao, Technische Universität Berlin, Germany

Design and Implementation of a Generic Library for P2P Streaming

Luca Abeni, University of Trento, Italy

Csaba Kiraly, University of Trento, Italy

Alessandro Russo, University of Trento, Italy

Marco Biazzini, University of Trento, Italy

Renato Lo Cigno, University of Trento, Italy

Design and Evaluation of an Optimized Overlay Topology for a Single Operator Video Streaming Service

Stefano Giordano, University of Pisa, Italy

Rosario G. Garroppo, University of Pisa, Italy

Stella Spagna, University of Pisa, Italy

Saverio Niccolini, NEC Europe Ltd., Germany

Jan Seedorf, NEC Europe Ltd., Germany

COFFEE BREAK

16:00 – 18:00

POSTER / DEMO SESSION

Chair

Gabriella Olmo, Politecnico di Torino, Italy

An Analytical Approach to Model Adaptive Video Streaming and Delivery

Razib Iqbal, University of Ottawa, Canada

Shervin Shirmohammadi, University of Ottawa, Canada

Consistent Image Decoding from Multiple Lossy Versions

Marco Dalai, University of Brescia, Italy

Serena Malavasi, University of Brescia, Italy

Riccardo Leonardi, University of Brescia, Italy

Improving Quality-of-Experience for Multiple Description Video Transmission in Peer-To-Peer Networks

Simone Milan, University of Padova, Italy
Giancarlo Calvagno, University of Padova, Italy

Knapsack Problem-based Piece-Picking Algorithms for Layered Content in Peer-to-Peer Networks

Michael Eberhard, Klagenfurt University, Austria
Tibor Szkaliczki, Computer and Automation Research Institute, Hungarian Academy of Sciences, Hungary
Hermann Hellwagner, Klagenfurt University, Austria
Laszlo Szobonya, Computer and Automation Research Institute, Hungarian Academy of Sciences, Hungary
Christian Timmerer, Klagenfurt University, Austria

MixNStream: Multi-Source Video Distribution with Stream Mixers

Philip Chun Ho Yuen, The Hong Kong University of Science and Technology, P.R. China
Gary Chan, The Hong Kong University of Science and Technology, P.R. China

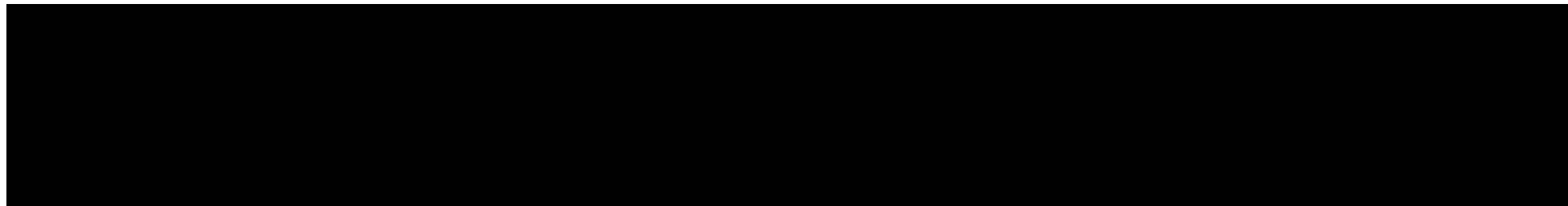
Three Highly Available Data Streaming Techniques and Their Tradeoffs

Sumita Barahmand, USC, USA
Shahram Ghandeharizadeh, USC, USA
Anurag Ojha, USC, USA
Jason Yap, USC, USA

18:00 – 18:30

BEST PAPER AWARD + CLOSING

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Natural Environments

WS17 – AFFINE 2010: 3rd ACM Workshop on Affective Interaction in Natural Environments

Sponsors



Social



9:00 – 9:15
OPENING SESSION

9:15 – 10:00
KEYNOTE TALK
Chair
Ginevra Castellano, Queen Mary University of London, United Kingdom

Automated Analysis of Non-Verbal Affective and Social Behaviour
Prof. Antonio Camurri, University of Genova, Italy

10:00 – 11:15
ORAL SESSION 1
Analysis and Recognition
Chair
Louis-Philippe Morency, University of Southern California, USA

Enjoyment Recognition from Physiological Data in a Car Racing Game
Simone Tognetti, Politecnico di Milano, Italy
Maurizio Garbarino, Politecnico di Milano, Italy
Andrea Tommaso Bonanno, Simon Fraser University, Canada
Andrea Bonarini, Politecnico di Milano, Italy
Matteo Matteucci, Politecnico di Milano, Italy

RANSAC-based Training Data Selection for Emotion Recognition from Spontaneous Speech
Elif Bozkurt, Koc University, Turkey
Cigdem Eroglu Erdem, Bahcesehir University, Turkey
Engin Erzin, Koc University, Turkey
Tanju Erdem, Ozyegin University, Turkey

Genetic Search Feature Selection for Affective Modeling: a Case Study on Reported Preferences
Hector Perez Martinez, University of Copenhagen, Denmark
Georgios Yannakakis, University of Copenhagen, Denmark

Real Time Labeling of Affect in Music Using the AffectButton
Joost Broekens, Delft University, The Netherlands

COFFEE BREAK**11:45 – 13:00****ORAL SESSION 2**

Synthesis and generation

Chair

Christopher Peters, Coventry University, United Kingdom

Synthesizing Expressions using Facial Feature Point Tracking: How Emotion is Conveyed

Tadas Baltrušaitis

Laurel D. Riek

Peter Robinson, University of Cambridge, United Kingdom

Selecting Appropriate Agent Responses based on Non-Content Features

Mark ter Maat, University of Twente, The Netherlands

Dirk Heylen, University of Twente, The Netherlands

Interpretation of Emotional Body Language Displayed by Robots

Aryel Beck

Antoine Hiolle, University of Hertfordshire, United Kingdom

Alexandre Mazel, Aldebaran Robotics, France

Lola Cañamero, University of Hertfordshire, United Kingdom

LUNCH BREAK**14:30 – 16:00****ORAL SESSION 3**

Interaction (1)

Chair

Laurel Riek, University of Cambridge, United Kingdom

Closing the Loop: from Affect Recognition to Empathic Interaction

Iolanda Leite, INESC-ID, Instituto Superior Técnico – UTL, Portugal

André Pereira, INESC-ID, Instituto Superior Técnico – UTL, Portugal

Samuel Mascarenhas, INESC-ID, Instituto Superior Técnico – UTL, Portugal

Ginevra Castellano, Queen Mary University of London, United Kingdom

Carlos Martinho, Instituto Superior Técnico Lisbon, Portugal

Rui Prada, INESC-ID and Instituto Superior Técnico, Portugal

Ana Paiva, Instituto Superior Técnico Lisbon, Portugal

Designing Affective Computing Learning Companions with Teachers as Design Partners

Sylvie Girard, University of Bath, France

Hilary Johnson, University of Bath, United Kingdom

Ubiquitous Social Perception Abilities for Interaction Initiation in Human-Robot Interaction

Amol Deshmukh, Heriot-Watt University, United Kingdom

Ginevra Castellano, Queen Mary University of London, United Kingdom

Mei Yii Limt, Heriot-Watt University, United Kingdom

Ruth Aylett, Heriot-Watt University, United Kingdom

Peter McOwan, Queen Mary University of London, United Kingdom

A Motivational Health Companion in the Home as Part of an Intelligent Health Monitoring Sensor Network

Vanessa Evers

Ben Kröse, University of Amsterdam, The Netherlands

Interpreting non-linguistic utterances by robots: studying the influence of physical appearance

Robin G. Read

Tony Belpaeme, University of Plymouth, United Kingdom

COFFEE BREAK**16:15 – 18:00****ORAL SESSION 4**

Interaction (2)

Chair

Ginevra Castellano, Queen Mary University of London, United Kingdom

On the Importance of Eye Gaze in a Face-to-Face Collaborative Task

Sascha Fagel, GIPSA-lab, France

Gérard Bailly, Institut National Polytechnique de Grenoble, France

Use of Nonverbal Speech Cues in Social Interaction between Human and Robot: Emotional and Interactional markers

Agnes Delaborde

Laurence Devillers, LIMSI-CNRS, France

Facilitative Effects of Communicative Gaze and Speech in Human-Robot Cooperation

Jean-David Boucher, INSERM U846 Stem Cell & Brain Research Institute, France

Jocelyne Ventre-Dominey, INSERM U846 Stem Cell & Brain Research Institute, France

Sascha Fagel, GIPSA-lab, FRANCE, France

Gérard Bailly, Institut National Polytechnique de Grenoble, France

Peter Ford Dominey, INSERM U846, France

Can Polite Computers Produce Better Human Performance?

Peggy Wu, SIFT – Smart Information Flow Technologies, USA

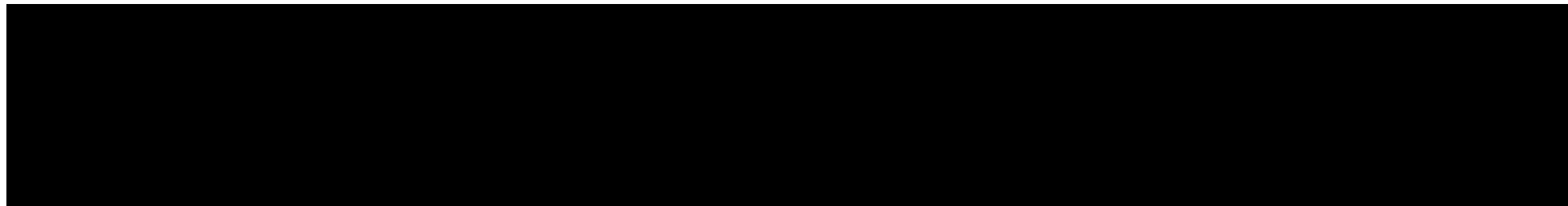
Augmented Photoware Interfaces for Affective Human-Human Interactions

Radu-Daniel Vatavu, University Stefan cel Mare of Suceava, Romania

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Multimedia Interaction and Access

WS18 – SAPMIA: ACM Workshop on Social, Adaptive and Personalized Multimedia Interaction and Access

Sponsors



Social



9:30 – 9:45
OPENING SESSION

9:45 – 10:45

KEYNOTE TALK

Chair

Naeem Ramzan, Queen Mary, University London, UK

QoE Issues in P2P Video Streaming

Touradj Ebrahimi, Ecole Polytechnique Fédérale de Lausanne, Switzerland

COFFEE BREAK

11:00 – 12:30

ORAL SESSION 1 – FULL RESEARCH PAPERS

Connected Multimedia Theory

Chair

Martin Halvey, University of Glasgow, UK

Towards a Self-Organizing Replication Model for Non-Sequential Media Access

Anita Sobe, Klagenfurt University, Austria

Wilfried Elmenreich, University of Klagenfurt, Austria

Laszlo Böszörményi, University Klagenfurt, Austria

Introducing RISPlayer: Interactive Generation of Personalized Video Summaries

Victor Valdes, Universidad Autónoma de Madrid, Spain

Jose M. Martinez, Universidad Autonoma de Madrid, Spain

Concept based Interactive Retrieval for Social Environment

Tijana Janjusevic, Queen Mary University of London, United Kingdom

Qianni Zhang, Queen Mary, University of London, United Kingdom

Krishna Chandramouli, Queen Mary, University of London, United Kingdom

Ebroul Izquierdo, Queen Mary, University of London, United Kingdom

LUNCH BREAK

14:00 – 15:00

ORAL SESSION 2 – POSITION PAPERS

Connected Multimedia Theory

Chair

David Vallet, Universidad Autónoma de Madrid, Spain

Towards Characterizing Users' Interaction with Zoomable Video

Axel Carlier, National University of Singapore, Singapore

Guntur Ravindra, National University of Singapore, Singapore

Wei Tsang Ooi, National University of Singapore, Singapore

Finding the User's Interest Level from Their Eyes

Seyed Navid Haji Mirza, Queen Mary, University of London, United Kingdom

Ebroul Izquierdo, Queen Mary, University of London, United Kingdom

Browser Independent Content-Based Image Resizing for Liquid Web Layouts

Roberto Gallea, Università degli Studi di Palermo, Italy

Edoardo Ardizzone, University of Palermo, Italy

Roberto Pirrone, University of Palermo, Italy

15:00 – 16:00**ORAL SESSION 3 – POSITION PAPERS**

Chair

Charalampos Z. Patrikakis, National Technical University of Athens, Greece

My Personal Media Entertainer Context-Adaptive Content Recommendation and Delivery

Antonietta Spedalieri, Telefonica I+D, Spain

Albert Asensio, Telefonica I+D, Spain

Paulo Villegasm, Telefonica I+D, Spain

Helenca Duxans, Telefonica I+D, Spain

Gregorio Escalada, Telefonica I+D, Spain

Adaptive Video and Metadata Display using Multimedia Documents

Cyril Concolato, Telecom ParisTech, France

Why did you take this photo? A study on user intentions in digital photo productions

Mathias Lux, Klagenfurt University, Austria

Marian Kogler, Klagenfurt University, Austria

Manfred del Fabro, Klagenfurt University, Austria

COFFEE BREAK**16:30 – 17:15****POSTER SESSION***Combining Multimedia Resources for an Engaging Fruition of Cultural Heritage*

Carmelo Ardito, University of Bari, Italy

Maria Francesca Costabile, Università di Bari, Italy

Rosa Lanzilotti, Università di Bari, Italy

Adalberto Simeone, University of Bari, Italy

REM - A Ray Exploration Model That Caters to The Search Needs of Multi-Attribute Data

Koduri Gopala Krishna, IIIT Hyderabad, India

Gali Anupama, IIIT Hyderabad, India

Bipin Indurkha, International Institute of Information Technology, India

A Behavioral Study of Emotions in South Indian Classical Music and Its Implications in Music Recommendation Systems

Koduri Gopala Krishna, IIIT Hyderabad, India

Bipin Indurkha, International Institute of Information Technology, India

A Content-Based Rapid Video Playback Method Using Motion-Based Video Time Density Function and Temporal Quantization

Junfeng Jiang, Ryerson University, Canada

Xiao-Ping Zhang, Ryerson University, Canada

Tracking for Context Extraction in Athletic Events

Aristodemos Pnevmatikakis, Athens Information Technology, Greece

Nikos Katsarakis, Athens Information Technology, Greece

Paul Chippendale, Fondazione Bruno Kessler, Italy

Claudio Andreatta, Fondazione Bruno Kessler, Italy

Stefano Messelodi, Fondazione Bruno Kessler, Italy

Carla Maria Modena, Fondazione Bruno Kessler – IRST, Italy

Francesco Tobia, Fondazione Bruno Kessler, Italy

Analysing Multimedia Content In Social Networking Environments
Naeem Ramzan, Queen Mary, University of London, United Kingdom
Qianni Zhang, Queen Mary, University of London, United Kingdom
Charalampos Patrikakis, National Technical University of Athens, Greece
Ebroul Izquierdo, Queen Mary, University of London, United Kingdom

17:15 – 17:30

CLOSING REMARKS

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WS19 – CMM 2010: ACM Workshop on Connected Multimedia

8:50 – 9:00

OPENING SESSION

Chairs

Zhongfei (Mark) Zhang, SUNY Binghamton, USA
 Zhengyou Zhang, Microsoft Research, USA
 Ramesh Jain, University of California – Irvine, USA
 Yueting Zhuang, Zhejiang University, China

9:00 – 10:30

ORAL SESSION 1

Connected Multimedia Theory

Chair

Zhengyou Zhang, Microsoft Research, USA

Social Webconsciousness

Hyowon Kim, Leiden University, The Netherlands
 Michael S. Lew, Leiden University, The Netherlands

Connecting with the Collective: Self-Contained Reranking for Collaborative Recommendation

Yue Shi, Delft University of Technology, The Netherlands
 Martha Larson, Delft University of Technology, The Netherlands
 Alan Hanjalic, Delft University of Technology, The Netherlands

Collaborative Content Synchronization through an Event-Based Framework

Madirakshi Das, Eastman Kodak Company, USA
 Alexander C. Loui, Eastman Kodak Company, USA
 Suprakash Datta, York University, Canada

COFFEE BREAK

11:00 – 12:30

ORAL SESSION 2

Connected Multimedia Case Studies

Chair

Yueting Zhuang, Zhejiang University, China

Rich Location-Driven Tag Cloud Suggestions Based on Public, Community and Personal Sources

Dhiraj Joshi, Eastman Kodak Company, USA
 Jiebo Luo, Eastman Kodak Company, USA

Sponsors



Social



ACM Multimedia 2010 Twitter

Jie Yu, Eastman Kodak Company, USA
Phoury Lei, Eastman Kodak Company, USA
Andrew Gallaghe, Eastman Kodak Company, USA

Silkroad: A Sample of Combining Social Media with Cultural Tourism
Qing Wang, Northwestern Polytechnical University
Xiaozhen Qi, Northwestern Polytechnical University
Jiong Xu, Northwestern Polytechnical University

Epitome – A Social Game for Photo Album Summarization
Ivan Ivanov, Ecole Polytechnique Fédérale de Lausanne – EPFL
Peter Vajda, Ecole Polytechnique Fédérale de Lausanne – EPFL
Jong-Seok Lee, Ecole Polytechnique Fédérale de Lausanne – EPFL
Touradj Ebrahimi, Ecole Polytechnique Fédérale de Lausanne – EPFL

LUNCH TIME

14:00 – 15:00

KEYNOTE TALK

Michael W. Macy, Cornell University, USA
Diurnal Rhythms in Collective Mood Are Revealed in Social Media
Chair
Zhongfei (Mark) Zhang, SUNY Binghamton, USA

COFFEE BREAK

15:30 – 18:00

PANEL SESSION

Connected Multimedia – Current and Future Foci

Moderator

Ramesh Jain, University of California – Irvine, USA

Panelists

Alexander G. Hauptmann, Carnegie Mellon University, USA

Xian-Sheng Hua, Microsoft Research Asia, China

Alejandro (Alex) Jaimes, Yahoo! Research, Spain

Ching-Yung Ling, IBM Research, USA

Qi Tian, University of Texas at San Antonio

Changsheng Xu, Academy of Sciences, China

18:00

CLOSING REMARKS

Zhongfei (Mark) Zhang, SUNY Binghamton, USA

Zhengyou Zhang, Microsoft Research, USA

Ramesh Jain, University of California – Irvine, USA

Yueting Zhuang, Zhejiang University, China

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WS20 – SSPW 2010: ACM Workshop on Social Signal Processing

9.00 – 11.00

KEYNOTE TALK

Chair

A. Vinciarelli, U. of Glasgow

Kith and Kin: How Social Networks Make Us Smart

Alex Pentland, MIT, USA

Social Signal Processing in Depression

Jeff Cohn, Carnegie Mellon University, USA

COFFEE BREAK

11.20 – 12.30

ORAL SESSION

Chair

Chair D. Heylen, U. of Twente, NL

Multimodal coordination: exploring relevant features and measure

E. Delaherche, Université Pierre et Marie CURIE, FR

M. Chetouani, Université Pierre et Marie CURIE, FR

Improving Speech Processing through Social Signals: Automatic Speaker Segmentation of Political Debates using Role based Turn-Taking Patterns

F. Valente

A. Vinciarelli, U. of Glasgow

The organisation of floor in meetings and the relation with speaker addressee patterns

R. Akker, U. of Twente, NL

M. Theune, U. of Twente, NL

I. Kok, U. of Twente, NL

K. P. Truong, U. of Twente, NL

Implicit Image Tagging via Facial Information

J. Jiao

M. Pantic, Imperial College, UK

Towards a smiling ECA: Studies on mimicry, timing and types of smiles

R. Newiadomski

K. Prepin, Telecom ParisTech, FR

E. Bevacqua, Telecom ParisTech, FR

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Social



ACM Multimedia 2010 Twitter

M. Ochs, Telecom ParisTech, FR
C. Pelachaud, Telecom ParisTech, FR

Postural Expressions of Action Tendencies

N. Tan, LIMSI, FR
C. Clavel, LIMSI, FR
M. Courgeon, LIMSI, FR
J. C. Martin

Causal-Modeling of Personality Traits: Extraversion and Locus of Control

K. Kalimeri, Fondazione Bruno Kessler, I
B. Lepri, Fondazione Bruno Kessler, I
F. Pianesi, Fondazione Bruno Kessler, I

LUNCH BREAK

14.00 – 15.20

ORAL SESSION

Chair
Chair R.Cowie, Queens Univ. Belfast, UK

Differences in Listener Responses between Procedural and Narrative Tasks

D. Heylen, Univ. of Twente, NL

The Voice of Personality: Mapping Nonverbal Vocal Behavior into Trait Attributions

G. Mohammadi, Idiap Research Institute, CH

Discriminative Space-time Voting for Joint Recognition and Localization of Actions

A. Oikonomopoulos, Imperial College, UK

Cognitive Modelling of Human Social Signals

I. Poggi, University Roma Tre, I

COFFEE BREAK

15.40 – 17.40

KEYNOTE TALK

Chair
M.Pantic, Imperial College, UK

From observation to interaction

Toyoaki Nishida, U. of Kyoto, J

Regulative or Constitutive Behaviors: Culture and Identity in Human Interaction

Justine Cassell, Carnegie Mellon University, USA

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WS21 – ACM Workshop on Surreal Media and Virtual Cloning

9:00 – 10:00

KEYNOTE TALK

Chair

Ebroul Izquierdo, Queen Mary, University of London, UK
Next Generation 3D Video Representation, Processing and Coding
 Aljoscha Smolic, Disney Research, Zurich, Switzerland

COFFEE BREAK

10:15 – 12:15

ORAL SESSION 1

Surreal Media

Chair

Yang Cai, Carnegie Mellon University, USA

A Real-time Performance System for Virtual Theater

Qiong Wu, University of Alberta, Canada
 Pierre Boulanger, University of Alberta, Canada
 Maryia Kazakevich, University of Alberta, Canada
 Robyn Taylor, University of Alberta, Canada

Using Virtual Worlds for Behaviour Clustering-based Analysis

Antonio Gonzalez-Pardo, Universidad Autónoma de Madrid, Spain
 Francisco Borja Rodríguez, Universidad Autónoma de Madrid, Spain
 Estrella Pulido, Universidad Autónoma de Madrid, Spain
 David Camacho, Universidad Autónoma de Madrid, Spain

Virtual Gazing in Video Surveillance

Yingzhen Yang, Carnegie Mellon University, USA
 Yang Cai, Carnegie Mellon University, USA

Presentation of Geo-Referenced Videos with Google Earth

Lingyan Zhang, National University of Singapore
 Roger Zimmermann, National University of Singapore

A New Approach to Photograph Forensics Using 3D Analysis for Correcting Perception Errors

Hyoung Joong Kim, Korea University, Korea
 Soomin Lim, Korea University, Korea
 Boram Kim, Korea University, Korea

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Eui S. Jung, Korea University, Korea

Building Virtual Worlds by 3D Object Mapping
Alessandro Moro, University of Trieste, Italy
Enzo Mumolo, University of Trieste, Italy
Massimiliano Nolich, University of Trieste, Italy

LUNCH BREAK

14:00 – 14:45

KEYNOTE TALK

Chair
Tamy Boubekeur, Télécom ParisTech, France
Towards a Spatio-Temporal Appearance Model for Human Skin
Tim Weyrich, University College London, UK

14:45 – 15:45

PANEL SESSION

Surreal Media and Virtual Cloning research challenges
Panel discussion (research problems, potential impacts, collaborative opportunities post-proceedings)
Chair
Ebroul Izquierdo, Queen Mary, University of London
Invited panelists
Tamy Boubekeur, Télécom ParisTech, France
Yang Cai, Carnegie Mellon University, USA
Peter Eisert, Heinrich Hertz Institute, Germany
Noel O'Connor, Dublin City University, Ireland
Aljoscha Smolic, Disney Research, Zurich, Switzerland
Tim Weyrich, University College London, UK

COFFEE BREAK

16:00 – 17:40

ORAL SESSION 2

Virtual Cloning
Chair
Qianni Zhang, Queen Mary University of London, UK

Towards an Expressive Virtual Tutor
Maher Ben Moussa, University of Geneva, Switzerland
Zerrin Kasap, University of Geneva, Switzerland
Nadia Magnenat-Thalmann, University of Geneva, Switzerland
Krishna Chandramouli, Queen Mary University of London, UK
Seyed Navid Haji Mirza, Queen Mary University of London, UK
Qianni Zhang, Queen Mary University of London, UK
Ebroul Izquierdo, Queen Mary University of London, UK
Iordanis Biperis, Informatics & Telematics Institute, Greece
Petros Daras, Informatics & Telematics Institute, Greece

Automatic 3D Virtual Cloning of a Speaking Human Face
Alessandro Moro, University of Trieste, Italy
Enzo Mumolo, University of Trieste, Italy
Massimiliano Nolich, University of Trieste, Italy

A Virtual Coaching Environment for Improving Golf Swing Technique
Philip T Kelly, Dublin City University, Ireland
Noel. E. O'Connor, Dublin City University, Ireland

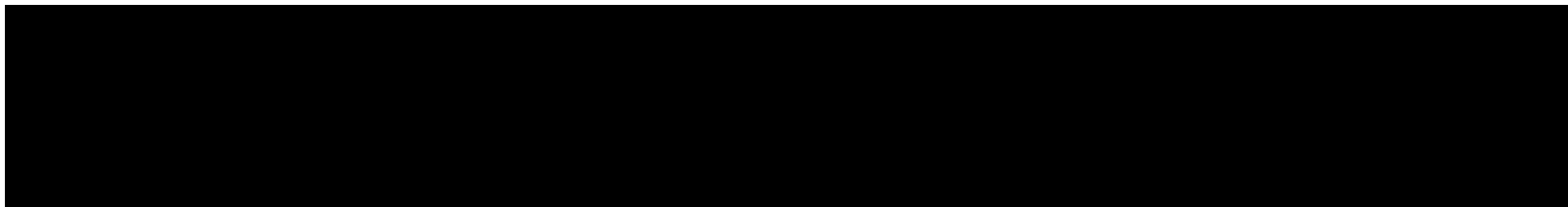
GrabcutD: Improved Grabcut Using Depth Information
Karthikeyan Vaiapury, Queen Mary University of London, UK
Anil Aksay, Queen Mary University of London, UK
Ebroul Izquierdo, Queen Mary University of London, UK

3D Reconstruction of Indoor and Outdoor Building Scenes from a Single Image
Georgios Vouzounaras, Aristotle University of Thessaloniki, Greece
Juan Diego Pérez-Moneo Agapito, Informatics and Telematics Institute, Greece
Petros Daras, Informatics and Telematics Institute, Greece
Michael Strintzis, Informatics and Telematics Institute, Greece

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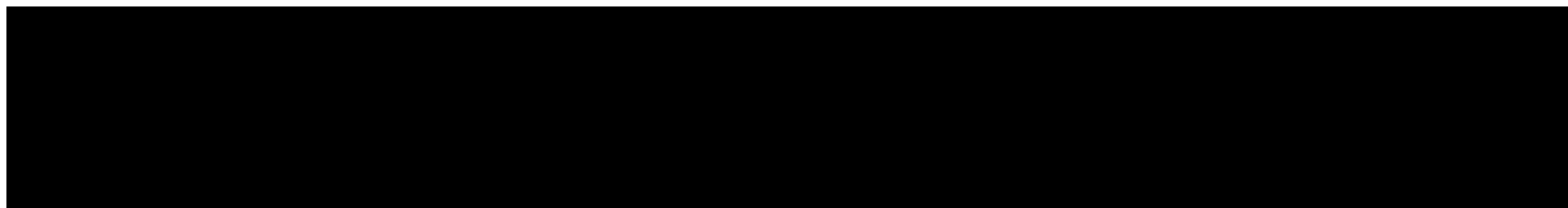


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Scholarships and Grants

ACM Multimedia 2010 Student Scholarship Winners

The ACM Multimedia 2010 Student Scholarship committee (consisting of 5 IBM researchers) have completed the selection, and 28 students from Singapore, China, France, the Netherlands, Switzerland, Greece received the SIGMM-sponsored scholarship.

NAME	INSTITUTION	NATIONALITY
Lifeng Shang	The University of Hong Kong	China, Hong Kong SAR, China
Bin Cheng	National University of Singapore	Singapore
Xiangyu Chen	School of Computing, National University of Singapore	Singapore
Zhendong Zhao	National University of Singapore/School of Computing	Singapore
Dong Liu	Harbin Institute of Technology	China
Mengdi Xu	National University of Singapore	Singapore
Giorgos Toliás	National Technical University of Athens	Greek
Thanh-Toan DO	Rennes 1 University	France
Donn Morrison	University of Geneva	Swiss
Rodrigo Laiola Guimarães	CWI: Centrum Wiskunde & Informatica	The Netherlands
Subhabrata Bhattacharya	University of Central Florida	USA
Vivek Kumar Singh	University of California, Irvine	USA
Sreekar Krishna	Arizona State University	USA
Yi Shen	UNC Charlotte	USA
Shu Shi	University of Illinois at Urbana-Champaign	USA

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Hongyuan Cai	Indiana University Purdue University Indianapolis	USA
Mengyu Qiao	New Mexico Tech	USA
Chreston Miller	Virginia Tech	USA
Razvan Orendovici	The Pennsylvania State University	USA
Rob Hess	Oregon State University	USA
Mukundan Venkataraman	University of Central Florida	USA
Michele Merler	Columbia University	USA
Wengang Zhou	University of Science and Technology of China	China
Shiliang Zhang	Institute of Computing Technology, Chinese Academy of Sciences	China
Lijun Zhang	Zhejiang University	China
Xin Lu	Tianjin University	China
Shuhui Wang	Institute of Computing Technologies, Chinese Academy of Sciences	China
Yue Gao	Tsinghua University	China

ACM Multimedia 2010 Call for Student Scholarship Applications

The ACM Multimedia conference is the main annual conference of ACM SIGMM. It provides a great opportunity for researchers to present their work, get acquainted with the work of others, and discuss with colleagues both junior and senior. To promote this form of cooperation, the SIG and its sponsors make conference participation grants available for several students.

A scholarship is meant to support personal attendance of one student at the main conference. Students selected for the award will be reimbursed for the advance registration fee (including main conference, workshop or tutorials) and travel expenses up to a fixed amount. Individual scholarships may cover additional expenses subject to conditions of individual sponsors. Students will have to make their own arrangements for travel and accommodation.

Who can apply

All students can apply, students being the primary author of an accepted paper will be given preference in the selection process.

How to apply

To apply for a scholarship, a faculty member of the student's host institution must fill in a short web application at <http://bit.ly/mm-travel-grant>. Students and faculty are encouraged to have the application sent as soon as possible. The application must be submitted no later than August 10, 2010. Applications arriving after the deadline will not be considered. The notification date is September 1, 2010. Decisions made are final.

Please include the following information in an application:

1. the faculty's full name and email address, student's full name and email address;
2. the name and nationality of the institution;
3. the student's academic status and expected year of graduation;
4. whether the student is (co-)author of a paper that was accepted for the main conference or if the student contributes to any other part of the conference;
5. if the student is a (co-)author, the paper title, author list, the student's contribution to the paper, and whether the student will present the paper
6. the reason for applying for the grant, including the expected benefits that the students will have from attending the conference, research significance, and the funding status of the student;

7. a brief statement by the student about his or her current research interests and research accomplishments to date, or a link to his/her CV.

Questions can be directed to [Lexing Xie](#)

We look forward to receiving your applications!

** Each accepted paper at ACMMM10 – with the exception of papers accepted at the Doctoral Symposium Program – must have at least one author registered with the REGULAR (NON-STUDENT) rate at the camera ready submission deadline of July 26th. Award of student scholarship does NOT waive this requirement. Please see conference registration page for details.

ACM Multimedia 2010 Call for Google Grant for Female Computer Scientists Applications

For postdocs and other non-student researchers (who are not eligible for this scholarship), as part of Google's ongoing commitment to encouraging women to excel in computing and technology, ACM Multimedia 2010 offers the Google grant for female computer scientists.

Two female computer scientists interested in Multimedia will be chosen from the applicant pool to receive:

- free registration for the main conference. Accommodation not included;
- up to 300 euros for travel costs from Google (given to the recipients at or after the event).

Who can apply

To be eligible for a conference grant candidates must:

- Be a female working in or studying Computer Science/Multimedia
- Maintain a strong academic background with demonstrated leadership ability
- Attend at least 2 full days of the main conference.

How to Apply

To apply send, no later than 12 September 2010, an e-mail to europa-events@google.com with the subject heading Google ACM MM 2010 Conference grant containing:

- your full name and email address
- current address, contact phone number and copy of photo ID
- your CV
- 1-page statement (no more than 600 words) about why you wish to attend ACM MM 2010 and why attending is important to your research and/or future career

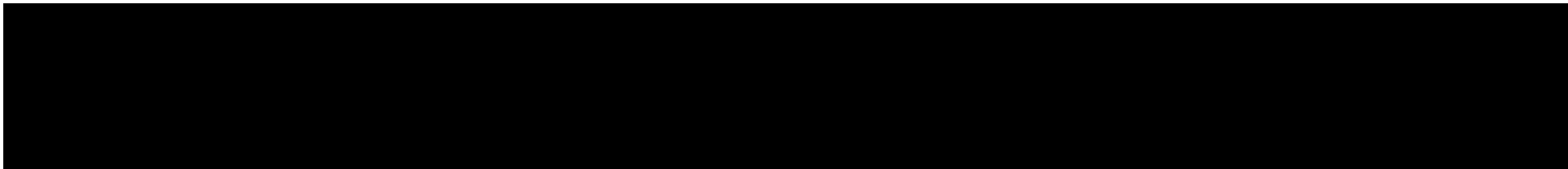
Winners and claim process

The winners will be notified by e-mail by 15 September 2010. If you are a successful applicant, you will be sent your free ticket and a payment form to expense your travel contribution, to be completed and submitted after the event.

We look forward to receiving your applications!

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Visa and Invitation Letters

Italy has joined the Schengen system giving total freedom of movement within all the territories of the Schengen agreement signatory states.

Admission to Italian territory for nationals of all the countries of the European Union and the European Economic Area is permitted if in possession of a valid passport or another travel document recognised as valid by the Italian government. Nationals of any other states outside the Schengen Area should check the visa requirements for admission to Italian territory at: www.esteri.it.

ACM MM 2010 can provide official letters of invitation to persons who have fully registered for the conference/workshops and for which payment has been received. To request an invitation letter, please contact Stefano BERRETTI by email berretti@dsi.unifi.it with the following information:

- Name, affiliation, and postal address.
- Paper ID and paper title, if applicable.
- ACM Member number, if applicable.
- "Request for ACM MM 2010 Invitation Letter" as the subject of your email.

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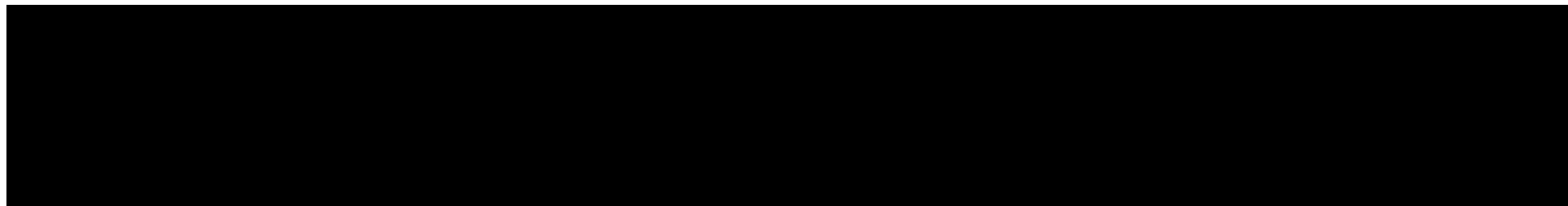


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Useful daytime information

Language

The Official language in Italy is [Italian](#). English is widely used in hotels, restaurants and shops. English is understood and spoken by ordinary people to a large extent. Spanish, French and German are also spoken and understood in many hotels, restaurants and shops.

Currency Information

The **Euro** is the currency used in Italy. Money exchanges can be made at any bank branch offices. The branches are open to the public from Monday to Friday from 08.30 to 13.30 and from 15.00 to 16.30. Many currency exchange shops are also present in Firenze downtown and at the airport, usually open 7/7 days. For currency conversion rates look at www.xe.com.

Credit Cards

Visa, **MasterCard** and **American Express** are most commonly used in Italy. Cards are used almost everywhere in hotels, restaurants, shops, museums...They cannot be used to finance your transportation costs.

Restaurants

Firenze and Tuscany have a very renowned cuisine in Italy and worldwide. At the heart of **Florentine cookery** are four fundamental ingredients: *bread* (plain, unsalted, well-baked with a crispy crust and light and airy inside); *extra-virgin olive oil* (the best even for frying and grilled meat); *meat* (Florentine steaks of beef, roasted or wine-braised game, fried rabbit and chicken...); *wine* (red wines are most famous, "Super Tuscany" wines are the top ranked ones). However, as a result of Firenze's popularity with tourists, many restaurants offer very mediocre food. We, ACM Multimedia 2010 Chairs, agree with the majority of Fodor's recommendations given at www.fodors.com for restaurants where to have good meals in Firenze.

Bus and Taxi Service

All **buses** for any locations in Firenze downtown stop at *Piazza della Stazione* aside *Santa Maria Novella* train station, within walking distance from the Conference venue. Good bus services connect the centre of Firenze to its surroundings. Bus lines in Firenze and bus travel information is available at www.ataf.net .

The main **taxi station** in Firenze downtown is located just at the exit of at *Santa Maria Novella* train station. Taxi can be requested by calling **+39-055-4390 | +39-055-4499 | +39-055-4798 | +39-055-4242**. Trip fare rules are exposed in the taxi cab in the principal languages. Trips from Firenze downtown to *Amerigo Vespucci* airport have a fixed fare of €20,00 (plus cost for

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An agency of the Province of British Columbia



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luggage).

Electricity

Electricity is **230 Volts, 50 AC**. Plugs used are:

Type C



Type F



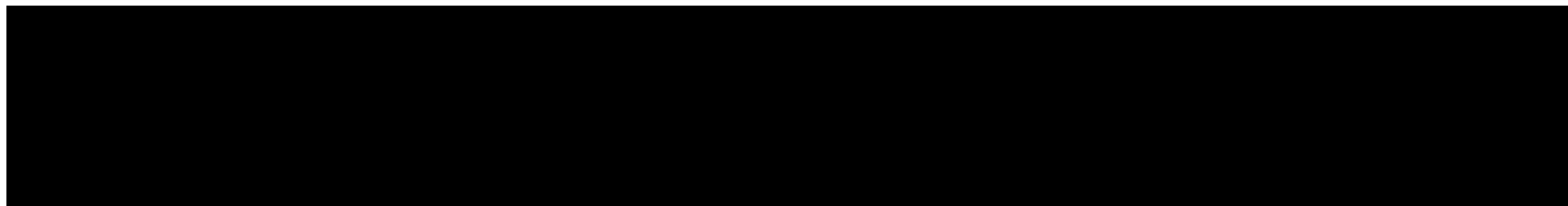
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The ACM Multimedia 2010 iPhone App is now available!

By WEBCHAIRS | Published: OCTOBER 22, 2010



Now available on App store (for free) the [ACM Multimedia 2010 iPhone App!](#)

This iPhone application allows visitors to view the daily schedules ordered by categories (Main Conference, Workshops, Tutorials and Special Events).

For each talk it's available a short description.

It's possible to mark favourite talks in advance and know exactly which one you attend. While the conference is going on, you can view "On Air" and upcoming talks. In case you don't know where the talk is, in any description you can find a simple map.

In the info section it's possible to find a short list of places (showed directly into google maps) where to eat in the area around the conference venue and a selection of restaurants, museums and monuments and other venues for leisure time.

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ACM Multimedia 2010 iPhone App

Special thanks to [Gianluca Urgese](#) for his contribute in the App development.

Compatibility: the App is compatible with iPhone 3G, iPhone 3GS and iPhone 4

Requirements: iOS 4.1 or higher

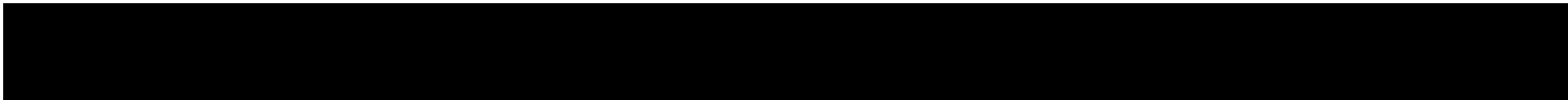
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« [Twitter discussion at ACM Multimedia 2010](#)

[ScientificCareers](#), the job board of Multimedia, is online! »

ACM Multimedia 2010 International Conference, 25-29th October 2010, Firenze, Italy. **Credits:** [MICC, Media Integration and Communication Centre](#), National Center of Excellence, Università di Firenze, Italy.





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Twitter discussion at ACM Multimedia 2010

By WEBCHAIRS | Published: OCTOBER 21, 2010



Please help us improving interaction, interactivity and social exchange of ideas with our [Twitter application](#) while at ACM Multimedia 2010!

During the two keynote speeches (on the 26th and 28th Oct.) we will read your questions and comments marked with hashtag **#acmmm10** combined with the hashtag of the keynote (**#kn1** for the 26th, **#kn2** for the 28th). At the end of each speech a display will show all the related tweets and will be used as an inspiration for discussion.

During the main conference you can always **tweet your ideas** about each track of ACM Multimedia 2010. All tweets containing the tag **#acmmm10** plus one of the track tags (**#ap** for application, **#sy** for system, **#hi** for human-interaction, **#ct** for content) will be displayed in the Discussion Rooms (see ACM Multimedia 2010 program). The discussion chair will use your tweets as a starting point for a discussion.

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« General Co-chair Alberto Del Bimbo interview on Ustation

The ACM Multimedia 2010 iPhone App is now available! »

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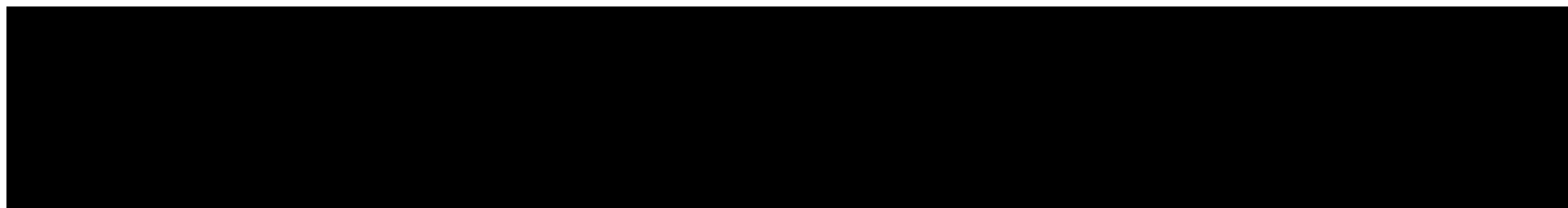


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General Co-chair Alberto Del Bimbo interview on Ustation

By WEBCHAIRS | Published: OCTOBER 19, 2010



General Co-chair prof. Alberto Del Bimbo was interviewed by [Ustation](#), the first italian social network dedicated to the aggregation of information and content from the university media. You can read the article [here](#) (italian) and listen to the interview [here](#) (english).

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« ACM Multimedia goes mobile!

Twitter discussion at ACM Multimedia 2010 »

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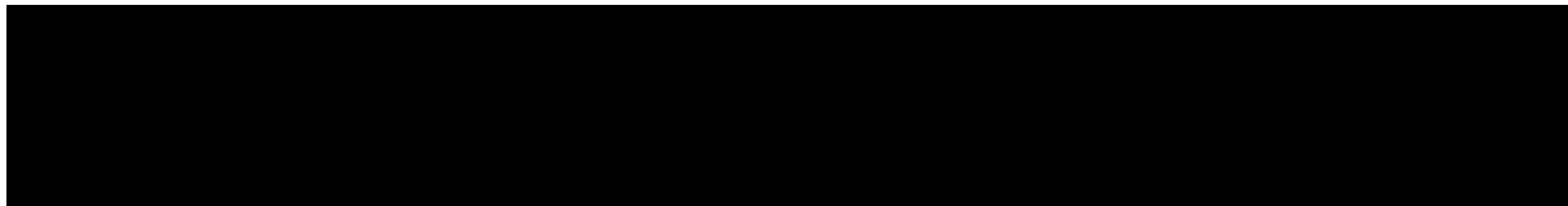


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Welcome to the ACM Multimedia 2010 website

ACM Multimedia 2010 is the worldwide premier multimedia conference and a key event to display scientific achievements and innovative industrial products. The Conference offers to scientists and practitioners in the area of Multimedia **plenary scientific and technical sessions, tutorials, panels** and **discussion meetings** on relevant and challenging questions for the next years horizon of multimedia. The Interactive Art program ACM Multimedia 2010 will provide the opportunity of interaction between artists and computer scientists and investigation on the application of multimedia technologies to art and cultural heritage.

Please look inside the ACM MULTIMEDIA Website for more information.

ACM Multimedia Gala Dinner. Only 8 seats still available!

By WEBCHAIRS | Published: SEPTEMBER 15, 2010



Only 8 seats still available at Gala Dinner! Dear participants to ACM Multimedia 2010, Gala Dinner will be held in [Salone dei 500](#) at [Palazzo Vecchio](#) (Palazzo Vecchio on [Wikipedia](#)). Please [register soon!](#)

Tutorials for the same price even after September 15!

By WEBCHAIRS | Published: SEPTEMBER 14, 2010



We still have a low number of registrations for [Tutorials](#). Because we wish they are largely attended, we decided to maintain the cost of Tutorials at the early registration price even after the deadline of September 15. The ACMMM10 Tutorial lectures are given by some of the most qualified scientists in the field. Please take this opportunity to [register](#)

ACM Multimedia 2010 Scholarship Program results

By WEBCHAIRS | Published: SEPTEMBER 14, 2010

The ACM Multimedia 2010 Student Scholarship Committee is pleased to announce the results of ACM Multimedia

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2010 Student Scholarship. The committee have completed the selection, and 28 students from Singapore, China, France, the Netherlands, Switzerland, Greece received the SIGMM-sponsored scholarship. This is the largest ACM MM Scholarship program over the past three years (thanks to Gary Chan and Faming Li for providing valuable information for 2008 and 2009). The amount of funding was approximately tripled and the number of awards was over 50% more! Congratulations to the student awardees world-wide! See the [winners list!](#)

The scholarship is funded by SIGMM, US NSF, and Google China. Our sincere thanks go to following mentors and researchers for making it possible and providing great growth opportunity for students: Shih-Fu Chang from Columbia University, Klara Nahrstedt from UIUC and SIGMM, Edward Chang and Aiming Zhu from Google, Shiqiang Yang from Tsinghua University.

ACM MM 2010 Student Scholarship Committee:

Lexing Xie (chair, IBM Research), Ankur Datta (IBM Research), Sinem Guven (IBM Research), Zon-Yin Shae (IBM Research), Yun Zhai (IBM Research)

ACM Awards: ACM SIGMM award to Effrosyni Kokiopoulou

By WEBCHAIRS | *Published:* SEPTEMBER 13, 2010



Dr. [Effrosyni Kokiopoulou](#) is the 2010 winner of the ACM Special Interest Group on Multimedia (SIGMM) award for Outstanding PhD Thesis in Multimedia Computing, Communications and Applications. Dr. Kokiopoulou receives the award for her thesis: Geometry-Aware Analysis of High-Dimensional Visual Information Sets, that she has done at the [Signal Processing Laboratory](#), Ecole Polytechnique Federale de Lausanne, Switzerland. The SIGMM award will be presented at ACM Multimedia 2010 International Conference.

ACM Awards: ACM SIGMM award to Ramesh Jain

By WEBCHAIRS | *Published:* SEPTEMBER 10, 2010



Dr. [Ramesh Jain](#), Discussion Rooms Chairs of ACM Multimedia 2010, is the winner of the prestigious ACM Special Interest Group on Multimedia (SIGMM) award for Outstanding Technical Contributions to Multimedia Computing, Communications and Applications. Congratulations! [Read more](#) on SIGMM website.

ACM Multimedia 2010 Gala Dinner. Last seats!

By WEBCHAIRS | *Published:* SEPTEMBER 9, 2010



Only 34 seats still available at Gala Dinner! Dear participants to ACM Multimedia 2010, Gala Dinner will be held in [Salone dei 500](#) at [Palazzo Vecchio](#) (Palazzo Vecchio on [Wikipedia](#)). The number of seats is limited for safety reasons. Please [register](#) soon!

ACM Nominations: Nozha Boujemaa appointed Director of INRIA Research Center

By WEBCHAIRS | *Published:* SEPTEMBER 6, 2010



[Nozha Boujemaa](#), Brave New Ideas program Chair of ACM Multimedia 2010, was appointed Director of the [INRIA Research Center Saclay Ile-de-France](#). Congratulations!

Registration for ACM MULTIMEDIA 2010 Tutorial program

By WEBCHAIRS | *Published:* SEPTEMBER 6, 2010



Dear visitor of the ACM MULTIMEDIA 2010 website, please give a look to the [ACM MULTIMEDIA 2010 Tutorial program](#). We have a great offer of Tutorials addressing key topics of Multimedia with a worldwide recognized experts. The number of registrations to Tutorials is still low, although we have a record number of registered attendees at the Conference. We invite you to take this opportunity and [register](#) the to the Tutorial of your interest. The Tutorial fee

allows to visit any Tutorials on October 25.

ACM MULTIMEDIA 2010 program is now available

By WEBCHAIRS | *Published:* SEPTEMBER 3, 2010



[ACM MULTIMEDIA 2010 program](#) is now available.

ACM MULTIMEDIA 2010 is going to have a record attendance this year. Today the registered attendees are: Main conference: 431; Workshops: 329.

We invite researchers and practitioners in multimedia to [join the event](#).

Last seats available at ACM Multimedia 2010 Gala Dinner

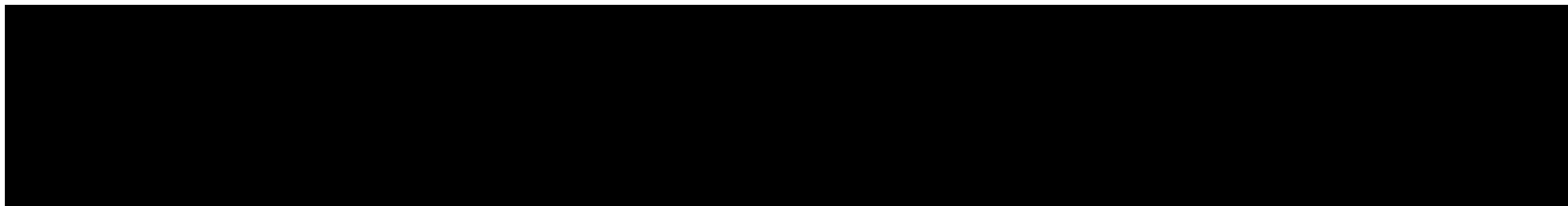
By WEBCHAIRS | *Published:* AUGUST 31, 2010



Only **51 seats** still available at Gala Dinner that will be held in [Salone dei 500](#) at Palazzo Vecchio (Palazzo Vecchio on [Wikipedia](#)). Please [register](#) soon! The number of seats is limited for safety reasons.

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ACM Multimedia goes mobile!

By WEBCHAIRS | Published: OCTOBER 18, 2010



ACM Multimedia 2010 features a rich version of its website for touch-mobile devices in an iPhone application-style design (it can be viewed from iPhone, iPod touch, Android and many others mobile devices).

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« *Online registrations are closed*

General Co-chair Alberto Del Bimbo interview on Ustation

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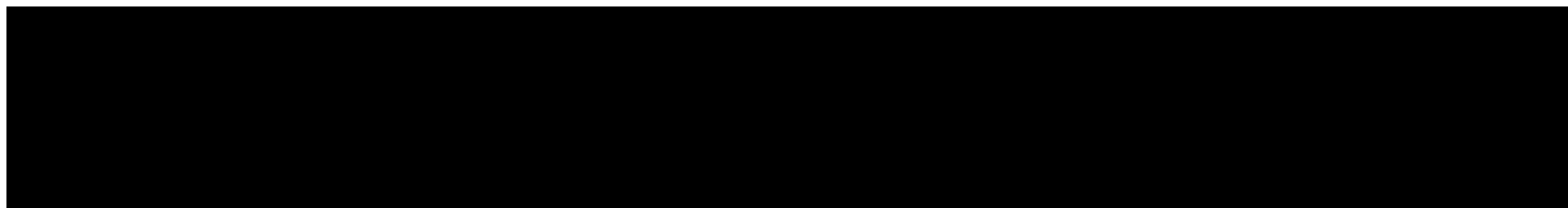


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Online registrations are closed

By WEBCHAIRS | Published: OCTOBER 18, 2010



Online registration to ACMMM10 Main Conference is officially closed. People who are interested in the conference can register themselves directly on site on 25th October 2010.

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« [ACM Awards Presentations](#) »

ACM Multimedia goes mobile! »

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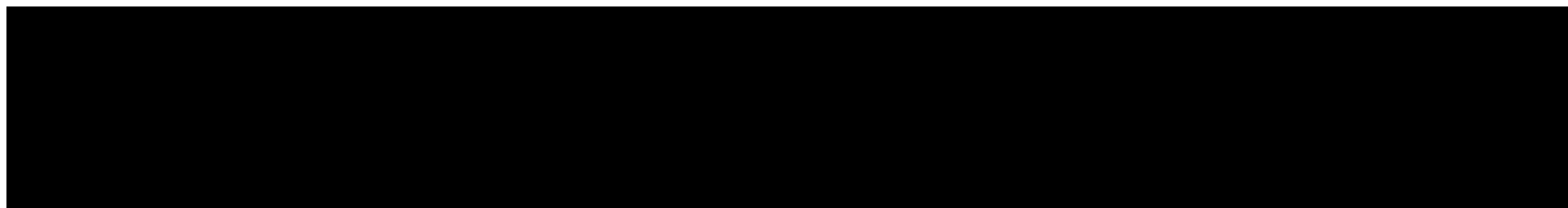


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ACM Awards Presentations

By WEBCHAIRS | Published: OCTOBER 13, 2010



Dear authors, all ACM awards will be presented at the ACM Multimedia 2010 Gala Dinner that will be held in [Salone dei 500](#) at Palazzo Vecchio (Palazzo Vecchio on [Wikipedia](#)) on Thursday, October 28. We invite every contender to be present at the ceremony.

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« *Call for Volunteers now open – EXTENDED*

Online registrations are closed »

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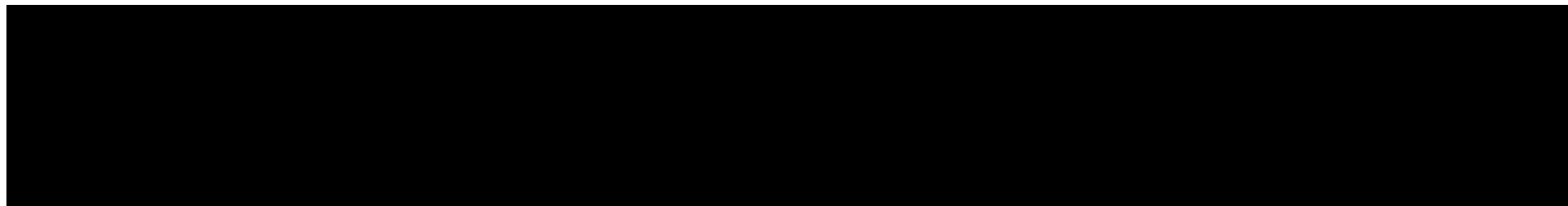


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ACM Multimedia 2010 Twitter

ACM Multimedia 2010 International Conference, 25-29th October 2010, Firenze, Italy. **Credits:** [MICC, Media Integration and Communication Centre](#), National Center of Excellence, Università di Firenze, Italy.





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Call for Volunteers now open – EXTENDED

By WEBCHAIRS | Published: SEPTEMBER 21, 2010



Students and Phd Students in ICT who are interested to participate to this event can join as Volunteers, giving their support to the success of the event and ensuring that the conference runs smoothly. ACM MULTIMEDIA 2010 is an excellent opportunity for Students in ICT to meet and talk with leading academic and industrial researchers and practitioners in the area of multimedia and meet other people from all over the world. If you want to join visit the [Call](#)

[for Volunteers page.](#)

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« ACM Multimedia 2010 Gala Dinner. No more seats available.

[ACM Awards Presentations](#) »

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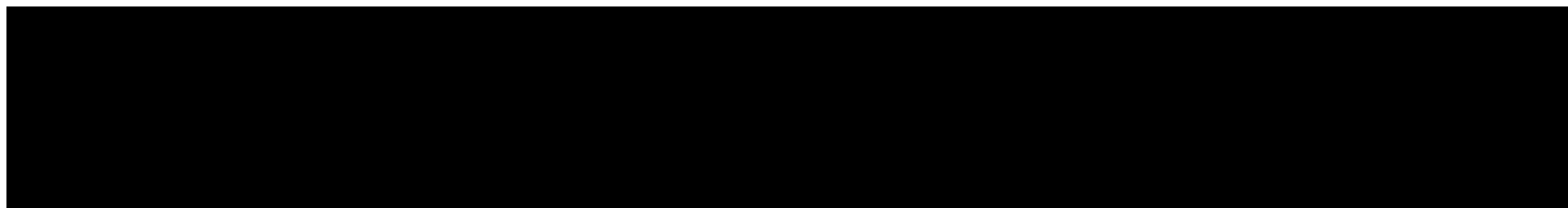


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ACM Multimedia 2010

International Conference

25-29th October 2010, Firenze, Italy

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Volunteers

ACM Multimedia 2010 Call for Volunteers



ACM MULTIMEDIA is the top Scientific Conference on Multimedia Technologies and Applications in the world. For the first time ACM MULTIMEDIA is held in Italy, at Palazzo dei Congressi and Palazzo Affari, in Firenze, on 25-29 October 2010, chaired by Prof. Alberto del Bimbo, Università di Firenze.

ACM MULTIMEDIA 2010 is a composite event including Oral and Poster tracks, Technical Demonstrations, Industry Exhibit, Competitions between researchers on industry topics, Panel Discussions, Meetings for students. There are Tutorials on key subjects held by distinguished scientists, as well as 21 Workshops on the most actual topics of multimedia. A 15-days exhibit of Art and Multimedia is also displayed at palazzo Medici Riccardi. You can give a look to the whole Program and Conference organization at <http://www.acmmm10.org>.

Students and Phd Students in ICT who are interested to participate to this event can **join as Volunteers**, giving their support to the success of the event and ensuring that the conference runs smoothly. ACM MULTIMEDIA 2010 is an excellent opportunity for Students in ICT to meet and talk with leading academic and industrial researchers and practitioners in the area of multimedia and meet other people from all over the world.

The number of Volunteers is limited to 20.

Requirements and Responsibilities

- All Volunteers should be proficient in English.
- Volunteers will be asked to work during the week of the conference to help with one or several of the following tasks:
 - surveillance and technical support during sessions, with the audio-visual equipment used by speakers, presentations management and other similar tasks;
 - organization support during events checking badges for entry to events, working at the registration desk, and

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ACM Multimedia 2010 Twitter

- other similar tasks;
- content creation for social media, by updating social channels of the conference (Twitter, Flickr and others) with pictures and information during the most important events and sessions;
- surveillance and technical support for artworks setup of the Interactive Art Exhibit in Palazzo Medici Riccardi
<http://www.acmmm10.org/program/interactive-art-exhibit/>.

Benefits

By becoming a Volunteer at ACM MULTIMEDIA 2010 you receive the following benefits:

- complimentary registration to the main conference and associated workshop;
- free ACM MULTIMEDIA 2010 gadget;
- participation certificate.

Important Dates

- Application deadline: ~~7 October 2010~~ **14 October 2010**
- Selection notification: ~~10 October 2010~~ **18 October 2010**

Application

To apply, e-mail a 1 page CV to [Gianpaolo D'Amico](#) or [Andrea Ferracani](#), copying Prof. [Alberto del Bimbo](#) and Prof. [Stefano Berretti](#).

Additionally, in your email, indicate the following:

- subject: ACMMM 2010 student volunteer application;
- your university and your education level (e.g., Ph.D., Undergraduate – Junior, student, etc.);
- whether you have been previously a volunteer at other conferences.

Further Information

If you have questions, you can contact Gianpaolo D'Amico or Andrea Ferracani (Email: damico@dsi.unifi.it , andrea.ferracani@unifi.it; Phone: +39-055-4237406), MICC, Media Integration and Communication Center, Università degli Studi di Firenze.

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ACM Multimedia 2010

International Conference

25-29th October 2010, Firenze, Italy



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ACM Multimedia 2010 Gala Dinner. No more seats available.

By [WEBCHAIRS](#) | *Published:* SEPTEMBER 20, 2010



ACM Multimedia 2010 Gala Dinner maximum number of attendees allowed reached. No more seats available. We deeply apologize...

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« Record number of registrations at ACM Multimedia 2010!

Call for Volunteers now open – EXTENDED »

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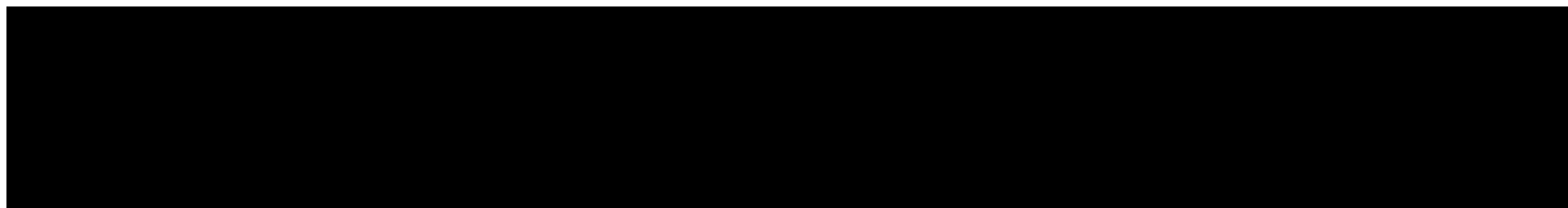


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Record number of registrations at ACM Multimedia 2010!

By WEBCHAIRS | Published: SEPTEMBER 20, 2010



Record breaking number of registrations at ACM Multimedia 2010 so far:

540 registered at [ACM Multimedia 2010 Main Conference](#)

391 registered at [ACM Multimedia 2010 Workshops](#)

12 worldwide renown artists will exhibit at [ACM Multimedia 2010 Art Exhibit](#)

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« ACM Multimedia 2010 Best Paper and Best Student Paper Awards Nominees

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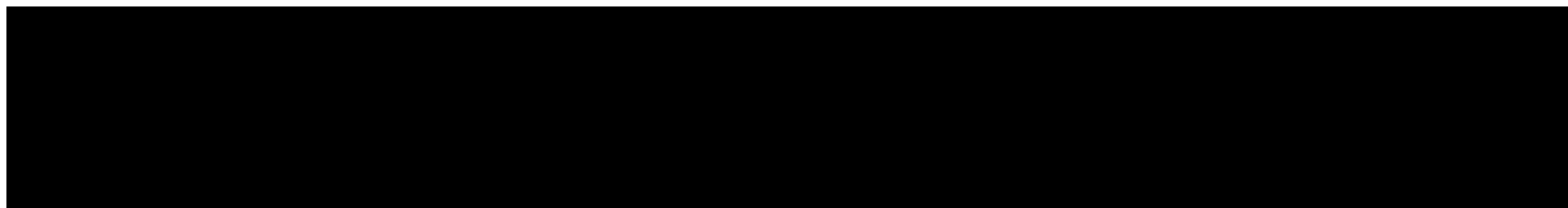


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ACM Multimedia 2010 Best Paper and Best Student Paper Awards Nominees

By WEBCHAIRS | Published: SEPTEMBER 20, 2010

The following authors have been nominated for the best paper and best student paper awards:

NOMINEES BEST PAPER AWARD ACM MULTIMEDIA 2010	TITLE	TRACK
Subhabrata Bhattacharya, Rahul Sukthankar, Mubarak Shah	A Coherent Framework for Photo-Quality Assessment and Enhancement based on Visual Aesthetics	Applications
Jiajun Bu, Shulong Tan, Chun Chen, Can Wang, Hao Wu, Lijun Zhang, Xiaofei He	Music Recommendation by Unified Hypergraph: Combining Social Information and Music Content	Content
Richang Hong, Meng Wang, Mengdi Xu, Shuicheng Yan, Tat-Seng Chua	Dynamic Captioning: Video Accessibility Enhancement for Hearing Impairment	Human
Simone Milani, Giancarlo Calvagno	A Cognitive Approach for Effective Coding and Transmission of 3D Video	Systems

NOMINEES BEST STUDENT PAPER AWARD ACM MULTIMEDIA 2010	TITLE	TRACK
Prarthana Shrestha, Peter H.N. de With, Hans Weda, Mauro Barbieri, Emile Aarts	Automatic Mashup Generation from Multiple-camera Concert Recordings	Applications
Nikhil Rasiwasia, Jose Costa Pereira, Emanuele Coviello, Gabe Doyle, Gert Lanckriet, Roger Levy, Nuno Vasconcelos	A New Approach To Cross-Modal Multimedia Retrieval	Content
Xintao Hu, Fan Deng, Kaiming Li, Tuo Zhang, Hanbo Chen, Xi Jiang, Dajiang Zhu, Carlos Faraco, Degang Zhang, Arsham Mesbah, Junwei Han, Xian-Sheng Hua, Stephen Miller, Guo Lei, Tianming Liu	Bridging Low-level Features and High-level Semantics via fMRI Brain Imaging for Video Classification	Human
Sayumi Sugimoto, Daisuke Noguchi, Yuichi Bannai, Kenichi Okada	Ink Jet Olfactory Display Enabling Instantaneous Switches of Scents	Systems

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